


THE PACIFIC COAST ARCHITECT



A MONTHLY JOURNAL FOR THE
ARCHITECTURAL INTERESTS
OF THE PACIFIC COAST 

	OFFICE OF PUBLICATION PORTLAND OREGON	
--	--	--

• TWENTY-FIVE CENTS A COPY • TWO DOLLARS AND A HALF A YEAR •

VOLUME 1

SEPTEMBER, 1911

NUMBER 6

SINGLE COPIES OF THIS ISSUE ARE FIFTY CENTS EACH

Architectural Terra Cotta



Face Brick
Mantel Brick
Sewer Pipe

Vitrified Brick
Flue Lining
Drain Tile



WESTERN CLAY CO.

508 Beck Building, Portland, Oregon

Exclusive Agents

Denny Renton Clay & Coal Co.
SEATTLE, WASHINGTON

TRANSITS, LEVELS

AND EVERY INSTRUMENT AN
ARCHITECT OR ENGINEER NEEDS



Aneroids
Compasses

Plumb Bobs
Rods
Range Poles
Tapes
Chains
Field Books
Cross Section
Profile and
Drawing Paper
Drawing Boards
Thumb Tacks
Blueprint Paper
Drawing Inks
Water Colors
Devoc Artists'
Materials

Scientific Books

Have you seen—
that means bought—
a "Beck" Vertical
Filing Case yet?

KILHAM STATIONERY & PRINTING CO.

CORNER FIFTH AND OAK STREETS, PORTLAND, OREGON

Western Refining Company



MANUFACTURERS OF

Beaver Damp-Proof Paint Beaver Water-Proof Pitch

"Wear-Best" Creosote Shingle Stain
Black Paints Oils and Varnishes

Get Our Prices—We can save you Money on Our Material

ALL GOODS SOLD UNDER A GUARANTEE

Office and Plant, 351 East Oak Street, Portland, Oregon

Largest Stock of Oak, Maple, Beech
Birch, Mahogany and Walnut

Flooring

In the Pacific Northwest

Manufacturers of Parquetry Floor-
ing. Have a large force of expert
mechanics and are in a position to
give estimates of finished floor
work. We use sanding and scrap-
ing machines for surfacing dance
halls and skating rink floors. Sell
wax, wax brushes, furniture rests
and glass sliding shoes.

WRITE OR CALL AT

Portland Hardwood Floor Co.

286 Yamhill Street, Portland, Oregon

Cantilever Flat Slab Construction

Was used for the two largest reinforced concrete buildings in Portland

HAVEMEYER BARS
COLUMN SPIRALS
BEAM UNITS



FABRICATED
REINFORCEMENTS FOR
BEAMS AND COLUMNS



WRITE US FOR
ESTIMATES OF COST OF
REINFORCED CONCRETE
CONSTRUCTION



WE CARRY PLAIN AND
COLD TWISTED BARS
IN STOCK

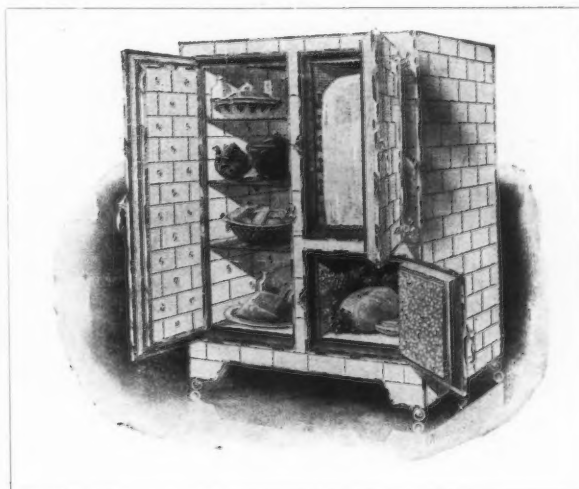
Concrete Steel Products Co., Engineers and Manufacturers, Chicago

Western Office: 512 Lewis Building, Portland. Agencies in All Coast Cities

The Brunswick-Balke Collender Co.

Manufacturers of

The Wickes Oak and Tile Refrigerators, Billiard Tables for the Home,
Billiard and Pool Table Supplies, Bar Fixtures, Bowling Alleys and Supplies



SPECIAL FIXTURE ORDERS SOLICITED AT THE NORTHWEST OFFICES

46 Fifth St., Portland, Oregon — 200-2-4 First Avenue South, Seattle, Wash. — 216-18 Wall St., Spokane, Wash.

WE STAND BACK OF OUR PRODUCTS

Parelius Manufacturing Company



Offices Chicago Milwaukee & Puget Sound Ry.
Railway Exchange Portland Ore.

Manufacturers of
High-Grade Cabinet Interior Trim

Also Designers and Makers of

Bank and Office Fixtures, Hardwood
Veneered Doors, Built-Up Panels,
Fancy Veneers, All Woods

CORRESPONDENCE SOLICITED ESTIMATES FURNISHED

Office and Factory, 782 to 814 Multnomah St., Portland, Oregon



LOBBY, IMPERIAL HOTEL, PORTLAND

The Lithic Manufacturing Co.

Manufacturers of

SCAGLIOLA AND SANITARY
PLASTIC FLOORS

Selling Agents for Raecolith Sanitary Flooring

"The floor that stands the test of time"

191 SEVENTH STREET

Phone Main 5299

J. C. Bayer Furnace Co.

Heating and Ventilating
Engineers

Agents for the National System of Automatic
Regulation. Heating and Ventilating of
Public Buildings a Specialty

Wholesale Dealers in

Registers and Boynton Furnaces

J. C. Bayer

Manufacturer of

Steel Ceilings, Skylights,
Metal Windows, Cornice

Office, 204 MARKET ST., PORTLAND, ORE.

We are sole manufacturers
of the famous

"Newberg Red" Face Brick

OTHERS USING THE WORD
TO ADVERTISE THEIR GOODS
DO SO UNLAWFULLY

Remember the Firm

**NEWBERG BRICK AND
TILE COMPANY**

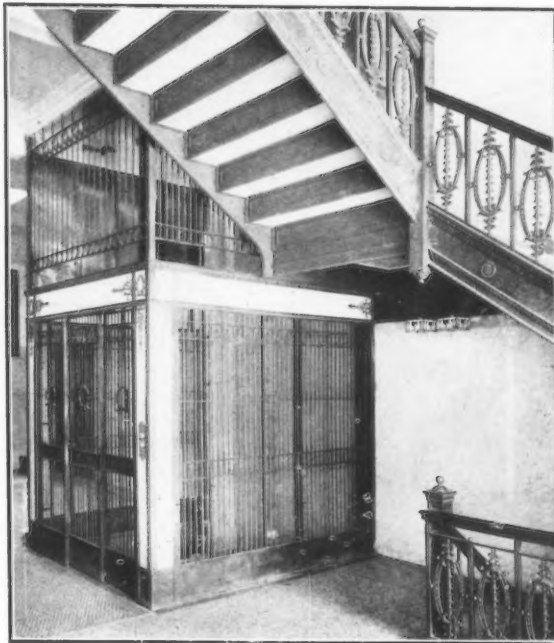
Phones, Main 475 and A3142

Principal Office: 605-7 Board of Trade Building
Portland, Oregon

*If you want a bid on a
Steam Plant
Hot Water Plant or
Warm Air Plant*

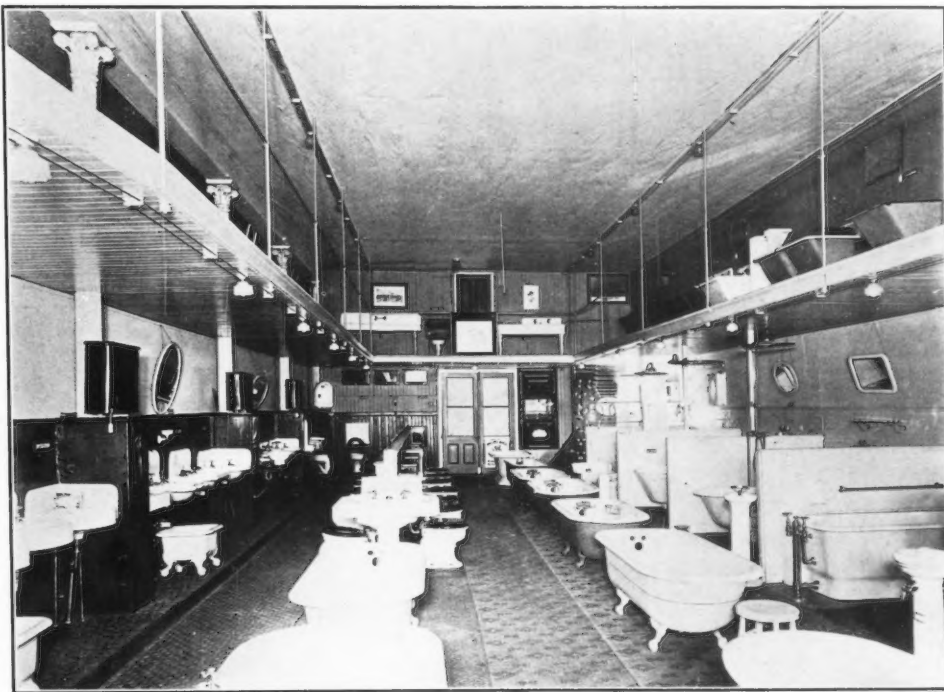
We've got the knowledge and the best material. ¶ If you want a ventilating plant of any kind for any class building, we can give you, Mr. Architect, the necessary data for it, which you probably haven't at hand. ¶ It won't cost you a cent to see us or write us. ¶ We are in business to serve you in any way we can in either heating or ventilating. ¶ We have the largest, lightest, best equipped shop and best conducted business on the Pacific coast for heating and ventilating work.

The W. G. McPherson Co.
19th and Wilson Sts., Portland, Oregon



Columbia Building, Spokane, Washington—Prusse & Zittel, Architects

Spokane Ornamental Iron Works
Builders and Designers of Ornamental Iron and Bronze
Spokane, Washington



Display Room—Modern Plumbing Fixtures

M. L. KLINE

CENTRALLY
LOCATED

84-86 FRONT STREET
PORTLAND, OREGON

INDIVIDUALITY

That's what you want in making your house a real home

Exclusive Designs Our Specialty

Wall Paper, Chintz, Satin, Velvet, Linen and Tapestry, Finishings, Willow, Garden, Mahogany and Period Furniture, Brasses, Silver, Sheffield Plate, etc.

NO DUPLICATE IN OUR STOCK

We contract for all sorts of interior and decorative work

Our prices will appeal to you. Estimates made and suggestions offered as required

VISITORS WELCOME

The C. Ellison Parker Co.

Interior and Architectural Decorators

Telephone Main 4603

1928-30 SECOND AVENUE, SEATTLE, WASHINGTON

Mt. DIABLO CEMENT

San Juan Lime
FOR PLASTERING

Imperial Lime
FOR BRICK WORK

Henry Cowell Lime & Cement Co.

206 Railway Exchange Building

Phones: Marshall 2134, A 3220

Spady Manufacturing Company

Designers and Manufacturers of



Fine Interior Finishing

Estimates and Designs Submitted
An interesting catalog sent on application

Phones: Marshall 2372; A 1130

Twenty-Sixth and Nicolai Streets
PORTLAND, OREGON



READY FOR USE

The Correct Thing

For Hotels, Homes, Flats, Apartments

Economical
Healthful
Sanitary
and
Convenient

Holmes Disappearing Bed

Architects endorse and Specify it
Owners and Investors demand it

Holmes Disappearing Bed Company
INCORPORATED

Maximum revenue
from minimum
space



DURING THE DAY

369-372 Arcade Annex,
Seattle; 225 South Wall
St., Spokane; S.B. Cooke,
422-3-4 Failing Building,
Portland; R. 210 Riggs-
Selman Building, Van-
couver, British Columbia



The Pacific Coast Architect



VOLUME 1

PORTLAND, OREGON, SEPTEMBER 1911

NUMBER 6

COAST PUBLISHING COMPANY, PUBLISHERS

F. O. THOMSON, Editor

L. J. FLYNN, Advertising Mgr.

PUBLISHED ON THE TWENTIETH OF EACH MONTH AT 803 LEWIS BLDG., PORTLAND, OREGON

Subscription in the United States and possessions
\$2.50 a Year. Foreign and Canadian \$3.00 a Year

Entered as Second-class matter at the Post-office at Portland, Oregon

Changes in, or copy for new advertisements must reach the office of publication not later than the Twentieth of the month preceding issue.

The Editor will be pleased to consider contributions of interest to the readers of this publication. When payment for same is desired this fact should be stated. Self addressed envelopes must accompany all such contributions.

ADVERTISING RATES ON APPLICATION

TELEPHONE MAIN 5121

The illustrated section of the November number will be devoted to showing the results of the Auditorium competition.

Their own mistakes and those of others seem insufficient to demonstrate to some people the error of their ways. Municipalities are much like individuals in this respect. We believe the market site is not the proper location for the new auditorium, but only time will prove the soundness of our judgment.

That reminds us. Following the expression of our opinion on the advisability of locating the auditorium on the east side, we were "called," on the phone, by an unknown who embarrassed us by asking how much we were getting from the property owners on the other side of the river. Of course we refused to answer for fear of incriminating ourselves. The unknown one, refusing to give his name, informed us that he was a subscriber but that if we made another break of that kind he would withdraw his support. We shudder to think of the awful financial loss we would suffer if Mr. Man-afraid-to-give-his-name were to make good his threat, and promise in the future to have no opinions of our own. We simply cannot think of losing that two fifty per annum.

The closing date for the Auditorium competition is October 25th, but no communication will be received following the 4th of that month. At the present writing Mr. Lawrence reports that the Commission has not announced

the Committee of Judges, but this will probably have been done before this issue reaches you. The competition has aroused considerable interest among the architects, and we may expect the submitting of designs by many of the foremost members of the profession, both East and West.

On page 172 of the August issue we announced Portland as "fourth" in the building record for July. This was an error as was evident by a comparison of the figures given.

The building record for August as compared to the same month last year reveals Portland as a heavy loser, 32 per cent, and Seattle a loss by 24 per cent, while Los Angeles made a gain of 24 per cent and San Francisco a gain of 45 per cent for the same period. But even with the loss of approximately one-third, Portland is in sixth place among the cities recorded.

A comparison of the July and August permits issued in the Coast cities is interesting in the extreme. San Francisco, with a gain of 45 per cent over August last year, shows a gain of only \$5000 over the July permits. Los Angeles, with a gain of 27 per cent for the same period, shows a gain of \$60,000, while Portland, with a loss of 32 per cent, shows a gain of over \$350,000, and Seattle, with a loss of 24 per cent shows a gain of over half a million.

The Builders' Exchange is rapidly increasing in membership. Secretary Danforth will be pleased to show you how it will prove to your financial interest to "come in." If your record is not good don't take the chance, for the Exchange is particular and only accepts responsible men. A membership means something to you.

Eight Months' Building Heavy—Nearly Half Billion Dollars' worth of Structures Erected

Official reports from forty-six cities throughout the United States, as compiled by the American Contractor, Chicago, shows an aggregate gain for August of 12 7-10 per cent as compared with August, 1910. This favorable showing is chargeable to the unprecedented boom in skyscrapers at Chicago, where the height limit is restricted to 200 feet, beginning with the first of September. Skyscraper permits involving more than \$20,000,000 were taken out during the month, most of which will rise to a height of 260 feet. More than half of the cities listed show a loss of building operations varying from 7 to 60 per cent; others show a gain of from 1 to 288 per cent. Those cities scoring an increase of over 50 per cent are: Chicago, 288 per cent; Cincinnati, 104; Des Moines, 144; Hartford, 93; Little Rock, 151; Oakland, 98; Philadelphia, 16; Toledo, 61. Building operations for the first eight months of the year show a decrease of 5 per cent as compared with the first eight months of 1910. Particulars will be found in the following tables:

AUGUST RECORD.

City—	August		Per Cent	
	1911	1910	Gain	Loss
Atlanta	\$ 629,384	\$ 424,657	48	..
Baltimore	420,884	1,158,107	..	62
Buffalo	793,000	1,069,000	..	25
Chattanooga	66,356	86,428	..	23
Chicago	26,200,500	6,743,200	288	..
Cincinnati	1,420,000	695,250	104	..
Columbus	535,036	541,649	..	1
Denver	784,485	736,455	6	..
Des Moines	154,000	63,085	144	..
Detroit	1,668,875	2,499,880	..	33
*Duluth	278,910	10,195,140	..	97
Evansville	230,867	443,700	..	48
Grand Rapids	145,550	184,712	..	26
Hartford	530,095	274,545	93	..
Indianapolis	642,488	1,085,010	..	40
Kansas City	877,170	898,382	..	2
Knoxville	39,903	39,405	1	..
Little Rock	262,656	104,520	151	..
Los Angeles	1,760,776	1,378,586	27	..
Manchester	189,816	173,260	9	..
Memphis	422,850	374,665	12	..
Milwaukee	1,036,196	954,673	8	..
Minneapolis	1,042,800	1,370,605	..	23
Nashville	159,706	407,634	..	60
Newark	1,377,713	1,008,912	36	..
New Haven	843,065	467,163	44	..
Manhattan	6,542,885	8,106,268	..	19
Brooklyn	3,376,973	2,686,490	25	..
Bronx	2,143,275	2,847,495	..	24
New York	12,063,133	13,640,253	..	11
Oakland	744,533	374,297	98	..
Oklahoma City ..	250,400	313,374	..	20
Omaha	404,325	468,795	..	13
Paterson	145,177	266,795	..	45
Philadelphia	4,660,185	2,634,265	76	..
Pittsburg	1,138,531	1,355,399	..	16

Portland, Or.	1,733,325	2,556,875	..	32
St. Paul	797,116	1,138,461
St. Louis	1,631,519	2,316,169	..	29
Salt Lake City	354,900	292,200	21	..
Scranton	104,930	180,210	..	41
San Francisco	2,139,095	1,472,078	45	..
Seattle	1,100,280	1,457,745	..	24
Toledo	574,588	355,921	61	..
Wilkes-Barre	92,950	188,993	..	50
Worcester	549,838	602,967	..	8
Total	\$ 70,997,911	\$ 62,993,620	12	7

*Duluth, 1 permit, steel works, \$10,000,000, Aug., 1910.

EIGHT MONTHS' BUILDING.

City—	Jan. 1 to		Per Cent	
	Sept. 1	Sept. 1	Gain	Loss
	1911	1910		
Atlanta	\$ 4,985,005	\$ 5,460,632	..	24
Baltimore	6,792,769	7,625,371	..	10
Buffalo	6,457,000	6,668,889	..	3
Chattanooga	757,583	1,079,703	..	29
Chicago	74,891,600	57,857,200	29	..
Cincinnati	8,816,915	6,250,895	41	..
Columbus	3,364,272	3,325,354	1	..
Denver	4,428,160	3,892,230	..	48
Des Moines	1,154,214	1,019,918	13	..
Detroit	13,641,975	11,777,870	16	..
*Duluth	1,755,690	12,212,684	..	85
Evansville	1,462,168	863,725	38	..
Grand Rapids	1,515,243	1,673,429	..	9
Hartford	4,332,755	3,345,071	29	..
Indianapolis	5,714,484	5,605,471	19	..
Kansas City	6,607,241	9,967,346	..	33
Knoxville	442,562	399,526	10	..
Little Rock	1,339,379	1,098,197	21	..
Los Angeles	15,140,450	14,439,103	5	..
Manchester	1,104,989	921,811	19	..
Memphis	4,388,515	4,723,603	..	7
Milwaukee	8,257,961	6,865,683	22	..
Minneapolis	10,953,855	10,656,015	3	..
Newark	8,622,279	8,685,345	..	7
Nashville	938,914	1,281,159	..	27
New Haven	4,383,405	3,155,948	38	..
Manhattan	76,855,985	84,526,261	..	9
Brooklyn	27,090,908	28,943,428	..	6
Bronx	17,269,072	25,879,690	..	31
New York	121,215,915	139,349,379	..	13
Oakland	4,766,207	4,290,714	1	..
Oklahoma City ..	2,318,551	4,414,998	..	47
Omaha	4,125,908	4,086,013	9	..
Paterson	1,620,071	1,654,409	..	2
Philadelphia	31,941,015	28,369,960	12	..
Pittsburg	7,237,625	9,295,342	..	22
Portland, Or.	12,147,669	13,033,712	..	7
St. Paul	6,297,641	7,380,828	..	14
St. Louis	13,255,341	15,123,341	..	12
Salt Lake City ...	2,091,900	3,675,500	..	43
Scranton	1,132,164	1,555,735	..	27
San Francisco	15,200,215	16,031,514	..	5
Seattle	5,614,110	11,454,235	..	104
Toledo	2,786,128	2,115,879	31	..
Wilkes-Barre	1,502,773	1,376,105	9	..
Worcester	3,344,399	2,765,619	28	..
Total	\$437,346,911	\$461,705,572	..	5

A Severe Test

A new building material made its appearance in Portland this week when a test was conducted by Inspector of Buildings Plummer of Sullivan reinforced hollow tile, a product which has been used extensively for fireproofing in Western cities for the past four years. The test was given primarily for the purpose of determining qualities of the tile and was in accordance with the provisions of the new building code of Portland, which prescribed that all such materials before being used in this city must undergo a severe practical test to gain the term "fireproof."

Following the provisions of Mr. Plummer's test, a building 15 feet by 7 feet by 12½ feet high was built of the 4-inch tile and the same finished on both inside and outside with a coating of plaster one-half inch in thickness. The roof was made of the Sullivan 3-inch tile. To get the proper



Showing building forty minutes after fire started

draft for the fire two chimneys, 18x20 inches, were built of 3-inch tile at the rear end and a grating of steel rails placed over the floor surface two feet from the ground. A firing door and draft were also provided at one end. The test called for a fire to be started from dry wood built up four feet high over the grate and that the temperature should rise gradually to 1700 F., and be maintained at that temperature for an hour and a half. Mr. Plummer started the fire at 2:25 p. m., and the following readings of temperature were obtained through a standard pyrometer:

Time of Reading.	Temp. Inside.	Temp. Outside.
2:25 Start.		
2:35	280 F.	70 F.
2:40	600	75
2:45	800	75
2:50	900	85
2:55	1100	85
3:00	1300	90
3:05	1400	90
3:10	1475	94
3:15	1475	96
3:20	1475	96
3:25	1600	98
3:27	1700	100
3:30	1750	100
3:31	1800	105
3:35	1775	105
3:40	1800	105
3:45	1720	100

3:50	1700	100
3:55	1730	102
4:00	1700	110
4:05	1720	110
4:10	1620	100
4:15	1700	100
4:20	1720	102
4:25	1780	112
4:30	1700	115
4:35	1780	115
4:40	1740	112
4:45	1720	115
4:50	1600	115
4:52 Water turned on.		

The test prescribed that the fire should be quenched with a regulation fire hose and nozzle under 30 pounds pressure and that the stream should be played on the walls for two and a half minutes.

At 5 o'clock at the order of Mr. Plummer, Capt. May of the Russell Street Station with his crew, turned the stream into the building, and besides fulfilling the terms of the test the stream was kept directly against one spot on the rear wall for a further minute and a half to demon-



After the fire and water test. Demonstrating unimpaired strength of roof and walls and showing in foreground steel grate rails warped and twisted by heat

strate that the strength of the walls had not been impaired by the fire. At the conclusion of the water test, the officials made an inspection of the interior of the building and found that the only damage done was the washing off of the finish coat of plaster on the rear wall.

No fire, smoke or water came through the walls, and to all appearances the building was as strong as before the fire.

Among the interested spectators at the test were City Inspector of Buildings Plummer, Fire Marshal Roberts, Fire Chief Laudenklos, Secretary McCune of the Board of

Fire Underwriters, and a number of architects, engineers and building construction men. Mr. Plummer stated that the test given was a severe one, and that the material is well adapted to buildings of the best class. Mr. McCune remarked that the tile had filled the requirements of the underwriters and was acceptable to him.

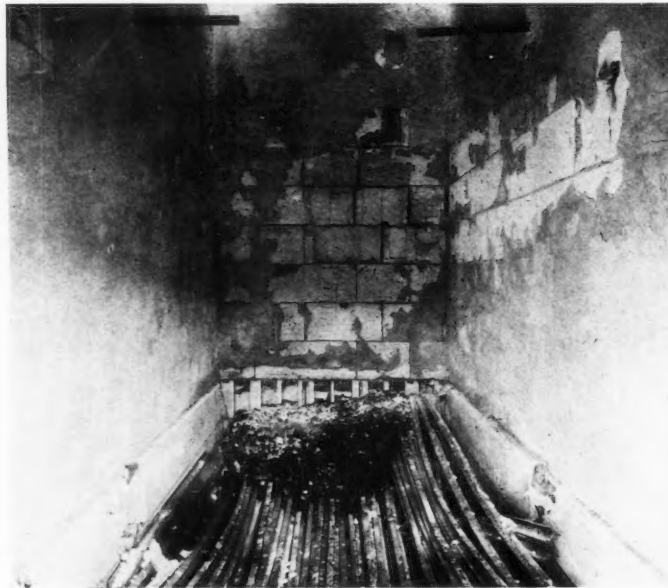
As a result of the test the following letter was received from the Inspector:

SULLIVAN TILE COMPANY,

801 Chamber of Commerce Bldg., City.

Dear Sirs—I wish to notify you that the test of Sullivan Reinforced Gypsum Tile, made on September 6th, in accordance with the regulations laid down by the Board of Appeal, was entirely satisfactory. This test, with a fire test at a temperature of 1700 degrees and over for one and one-half hours, followed by the water test, was severe enough to demonstrate very clearly that your tile will be satisfactory when used in the ordinary dividing partitions in fire-proof buildings, as the walls did not warp, bulge, or disintegrate, so as to be unsafe, and no smoke, fire or water came through the walls.

Yours very truly,
(Signed) H. E. PLUMMER,
Inspector of Buildings.



Interior view of building after fire and water

The company handling the material on the Coast made all the tile in Portland that were used in the test, and is now establishing a factory here as well as maintaining factories in San Francisco, Vancouver, B. C., Tacoma and Salt Lake City. A contract has already been signed to install the partition tile in the new Lincoln High School. The machinery to be used in Portland is now on the ground and the factory, when in operation, will employ about twenty-five men. The tile is composed mainly of pure gypsum with other ingredients and is reinforced with a wire mesh. Besides having superior fire-proofing qualities, it is very much lighter than other materials used for partition construction, and thus reduces the dead load carried by buildings of steel frame and concrete construction. Sullivan Tile is also claimed to be sound-proof, which makes it of particular value in apartment houses and schools. J. D. Sullivan, the inventor of the tile, who conducted the test here last week, has just completed the installation of his material in the new Harriman passenger station in Seattle.

Trade Notes

W. P. Fuller Company is furnishing the glass for the new Multnomah Hotel.

G. H. Killits, formerly of San Francisco, has opened a manufacturers' agency at 520 Swetland Bldg., and will represent twenty-four different lines.

The Morrison Electric Company, 219 E. Morrison street, has been awarded the contract for wiring the Smith Hotel, Sixth and Main streets, and is doing the wiring in the residences of J. G. Mack, Charley Deyette and Judge Ganterbein.

The Pacific Iron Works has completed six 85-foot steel trusses and the iron roofing on the People's Amusement Bldg., W. Park and Alder. They will also furnish the steel and iron for the hotel building at Twelfth and Burnside streets.

The Harris Ice Machine Company, 174 E. Water street, has secured the contract for an hundred-ton ice machine to be installed for the Boise Cold Storage Co., of Boise, Idaho. This is an addition to the three machines already installed for the same company.

The Pacific Lumber and Mfg. Company reports 3,000,000 feet of Siberian oak flooring and lumber in stock. The company recently acquired 300,000 acres of virgin forest in the Fiji Islands, including walnut, mahogany and satin wood. It is the present intention to start a large veneering plant.

The Portland Sheet Metal Works is installing the Kalamein iron work on the Lincoln High School. The sheet metal and roofing on the grand stand of the Multnomah Amateur Athletic Club is progressing rapidly. The company also has the contract for the copper and sheet metal work and the roofing for the Healy Bldg.

The Portland Cement Laundry Tray Company, East Sixth and Main, is manufacturing for Mr. Holloway a concrete burial vault which will be absolutely waterproof and air tight.

The Shope Concrete Products Co., 130 East Water street, is furnishing the concrete face brick on the building at Twentieth and Washington streets.

The Portland Hardwood Floor Co., 286 Yamhill street, has completed floors for the Fritz Apartments, Warren Apartments, Clay Apartments and the American Realty Co. building. They also have the contracts for the new Multnomah Hotel, the Multnomah Amateur Athletic Club and the Lipman & Wolfe building.

The Western Refining Co., 351 East Oak street, report business extremely good and their factory running full capacity.

W. J. Gold, of Chicago, a representative of the Standard Manufacturing Co., of Shelby, Ohio, was a recent caller on the local architects and hardware dealers. Mr. Gold is on a visit to the Coast cities demonstrating the Standard checking spring floor hinge.

H. C. Foster, Vancouver, B. C., representative of the Hester Manufacturing Co. of the Pacific Coast, was a recent visitor at the home office in Portland. He reports many good sized buildings and labor conditions more settled. According to Mr. Foster his company is installing 90 per cent of the metal sash and store fronts in Vancouver.

Michael Spahn, president and manager of the Portland Elevator Co., has returned from a successful business trip in the Willamette Valley.

Lawrence Holmes, president of the Holmes Disappearing Bed Co., of Los Angeles, is taking care of the local office in the absence of S. B. Cooke, who is making a tour of the Eastern cities, including New York, Boston and Philadelphia.

I. O. Thompson, of the contracting firm of Sinclair & Thompson, has sold his interest to a Mr. Brown, of Chicago. The firm will be known as Sinclair & Brown. Mr. Thompson expects to go to Southern Oregon to develop his gold mine.

I. W. Schiffer, manager of the Lithic Manufacturing Company, 625 Yeon building, reports having placed his material in the following buildings: Installed the Scagliola wainscot and Racolith in the bathrooms of the Fritz Apartments and Racolith in all the bathrooms of the Wheeldon Annex Apartments, Racolith floors in the kitchen, pantry and bathrooms of the Hill Hotel, Racolith floors in kitchen Portland Hotel, and Scagliola in the vestibule of the Grand Oak Hotel.

Fred W. Wagner, 363 Stark street, has the contract for the tile work in the Fordham Apartments. There will be 44 bathrooms and the floors and walls are to be tiled. Also the contract for the tile work on the west wing of the Multnomah County courthouse. Has just finished the tile work in the Provident Hospital at Seattle. There were 23 cars of tile used in the latter building.

Victor S. Persons, local representative of the Concrete Steel Products Company, was a recent visitor to Seattle on business. Mr. Persons reports that his company will design the structural work and furnish the reinforcement on the Goode building, Seventh and Hoyt streets.

The P. L. Cherry Company have just received their advance samples of the Claycraft brick, "the brick with an individuality." Those interested are invited to inspect them at the office of the above.

The fireless cooker is an instrument that cooks food without fire. The fire department was called to the Columbia Hardware Company recently to extinguish a fire in the fireless cooker.

"Newberg red" face brick, manufactured by the Newberg Brick and Tile Company, has recently been furnished for the Christie Hall dormitory of Columbia University; the Nurses' Home, Second and Wood streets; the St. Andrews' parish, East Eighth and Alberta streets; the Old Folks' Home, East Eightieth and Division streets, and the Catholic school at East Fifteenth and Miller streets, Sellwood.

Big oaks from little acorns grow. From a small beginning in limited quarters the business of the Oregon Hardware Company has grown in leaps and bounds until it has become the busiest retail hardware store in the city. The company long ago outgrew their present quarters on Sixth street. In casting about for a new location they have succeeded in securing the lease of two stores on the ground floor of the Worcester building, on Third street, which are being remodeled for them at the present time. Fair prices, fair treatment and the best hardware the market affords are synonyms with the Oregon Hardware Company.

The Western Clay Company has recently procured the agency for the famous Denny-Renton Clay and Coal Company's building paver and is bringing these brick to Portland at a very low figure, which makes possible an attractive material for warehouses, garages and theater construction. The brick has been used extensively for many of the beautiful homes and garden walls in the Northwest.

The Newberg Brick and Tile Company has purchased a five-ton White auto truck for use in delivering brick in Portland and vicinity.

M. L. Kline, plumbing, mill and steam supplies, 84 and 86 Front street, is adding many new fixtures to his already exceptional fine exhibit in the display room. A passenger elevator is being installed and will be used exclusively for the display room. The central location of the firm makes it

especially convenient for architects, contractors and the trade in general who wish to see the latest and best in plumbing supplies.

Thomas A. Frewen has invented and is selling a time-saving device for figuring radiation which was compiled from formulas used by heating engineers. The scale is absolutely accurate and is adapted for rapid figuring. It is being sold under the name of the Standard computing scale.

The Parelus Manufacturing Company has secured the contracts for the interior finish of the Frohman Apartments, Neu building, Reed Institute on Jefferson street, East Side library, Jackson building on Union avenue, People's Market at First and Taylor, Thompson garage, Lents school and Bjelland Apartments.

Washington Brick, Lime and Sewer Pipe Company is furnishing tan color matt glaze terra cotta for the Fernwood school; white matt glaze terra cotta for the Rose City school; terra cotta for the west wing of the courthouse; mission brick for the East Side library; granite brick for the Edmunds-Dailey building, and granite brick for the Dailey garage.

Our Illustrations

We have devoted our illustrated section this month to showing the results of the recent competition for the State Capitol Buildings to be erected at Olympia, Wash. The first prize was awarded to Wilder & White of New York City, who will receive the commission to design and supervise the construction of the Temple of Justice, to be built at an approximate cost of \$350,000. The second prize of \$1000 was awarded to Howells & Stokes of New York City; the third prize of \$750 to David J. Myers of Seattle; fourth prize of \$500 to Willcox & Sayward, Huntington & Gould and Charles H. Alden, associate architects, Seattle, Wash.; the fifth prize of \$250 to Ernest Flag of New York City.

Those receiving honorable mention were, in the order named:

G. Albert Lansburgh, San Francisco.

Milton Lichtenstein, San Francisco.

W. Marbury Somervell, Seattle, Wash.

William K. Macomber, Seattle, Wash.

J. A. Longe & Lawrence Ewald, St. Louis.

Olmstead Brothers, of Brookline, Mass., were employed by the Commission as landscape architects.

The Jury of Award was composed of C. H. Bebb, of Seattle, professional advisor; Kirkland K. Cutter, Spokane, and Wm. D. Faville, of San Francisco.

Plans Subway for San Francisco

Plans for a \$4,800,000 subway to be constructed under a long stretch of Market street, San Francisco, were filed with the Board of Supervisors by John Pierce Hill, a civil engineer, who was connected with the construction of the subway in Boston.

Hill stated that the city could reimburse itself by charging street car companies an additional rent of 2 per cent over and above the interest charges on the bond issue. He also stated that a syndicate of five San Francisco capitalists stood ready to carry the enterprise through, if the city would not.

Rubber nails for use in places where metal ones would corrode are a late German novelty.

Personal Mention

Architect W. E. Allen, of Los Angeles, spent a few days in Portland recently and will visit the Puget Sound cities before returning home.

Architect J. W. Reid, of Reid Bros., San Francisco, was a recent visitor in Portland. He reports building conditions improving in Frisco.

Architect Fred Claussen, of Claussen & Claussen, has returned from a ten days' vacation at Seaside.

Architect T. M. Goodrich, of Goodrich & Goodrich, recently met with a serious accident at Forest Grove, Oregon. While boarding a car it started, throwing him to the ground. He was confined to the Good Samaritan Hospital for some time but is now back at the office.

A. C. Jackson, of the Harriman System, has returned from a two months' trip through the Eastern and Southern states.

O. D. Bloom, local manager of the Brunswick-Balke-Collender Co., is spending his vacation on a hunting and fishing trip.

C. J. Dondero, manager of Portland Cement Laundry Tray Co., has returned from a business trip to Seattle.

I. H. Frank, local manager of the Waterhouse & Price Co., has returned from a business trip to Eastern Oregon and Idaho.

B. C. Jakway, of J. G. Mack & Co., has returned from a business trip to Seattle.

I. J. Galbraith, of Galbraith & Telander, was a recent visitor at the local office.

P. H. Carr, of J. G. Mack & Co., has returned from his vacation, spent at Seaside.

David J. Myers, of Seattle, President of the Washington State Chapter of the American Institute of Architects, has been selected as a delegate to the International Congress of Architects, which convenes next month in Rome, Italy.

W. R. Wilder, of the firm of Wilder & White, architects, New York City, the successful competitors for the plans for the proposed State Capitol buildings at Olympia, was a recent visitor in Seattle. Mr. Wilder stated that he expected to award contracts about the first of the year.

Architect Fitzherbert Leather, formerly practising at Gray's Harbor, has opened an office at 402 Walker Bldg.

City Engineer R. L. Brewster, of Prineville, Oregon, will spend his three weeks' vacation at his former home, Chicago.

C. C. Smith, sales manager of the Western Clay Co., was a recent visitor to Baker, Ore., on business.

F. W. Eastman, of the Far West Clay Co., Tacoma, Washington, was a recent visitor to Portland.

R. E. Heine, local representative of Reid Brothers, left for a two weeks' visit to the home office at Frisco.

San Francisco Will Build Dock

In accordance with plans to make San Francisco a great United States naval base for Pacific Ocean fleets, the navy department is planning to install a great drydock, capable of berthing the largest vessels afloat, in San Francisco bay, according to advices received from Washington. The proposed drydock, which is to be in operation by 1915, will be 1000 feet in length and 115 feet in breadth.

An enlargement of the Mare Island navy yard also is said to be planned.

The Builders' Exchange Visits Astoria and Seaside and Have a Splendid Outing

The Portland Builders' Exchange was well represented at the Astoria Centennial by a large delegation who, after spending the day visiting the fair grounds, automobiling and seeing the many sights which the Centennial City affords, continued on down to Seaside, where they spent the night, arising early the next morning to go clam-digging, fishing or bathing, as their pleasure saw fit. The delegation made quite a showing on the streets of Astoria, with their badges labeled "Have You Joined the Portland Builders' Exchange?" The welcoming committee of the Centennial cordially invited the members of the Exchange to march in the parade which was being formed on their arrival, but on account of the modesty of the members and the short time they had to stay, the invitation was declined with thanks.

Among the firms belonging to the Builders' Exchange which had representatives on this occasion were: McCargar, Bates & Lively, the Timms-Cress Co., Burkhard & Weaverson, Teller & Ostbye, Lewis Frost, Portland Wire & Iron Works, East Portland Wire & Iron Works, Lucas & Son, Hartman & Thompson, W. P. Fuller & Co., Central Door & Lumber Co., Zanello & Son, A. W. Kutchke, E. E. Angell, Ruedy Bros., and others. The "bunch" had a splendid time and were highly pleased with their outing.

Elma Gets Largest Door Factory—Factory now Being Built at McCleary Will Have Capacity of 2500 a Day

ELMA, Sept. 11.—Work is about finished on the building for the Henry McCleary Timber Company's big door factory located at the town of McCleary, eight miles from Elma. This factory will be the largest door factory in the world. The building itself will be 1136 feet in length and have a maximum width of 225 feet. When this space is filled with the necessary machinery, 2500 fir doors can be turned out each working day. Nothing but doors will be made. The fir door is now used all over the West, and while fir wood is harder to work than the softer woods, such as pine, it is so much prettier and more durable that the McCleary company expects to make markets all over the country.

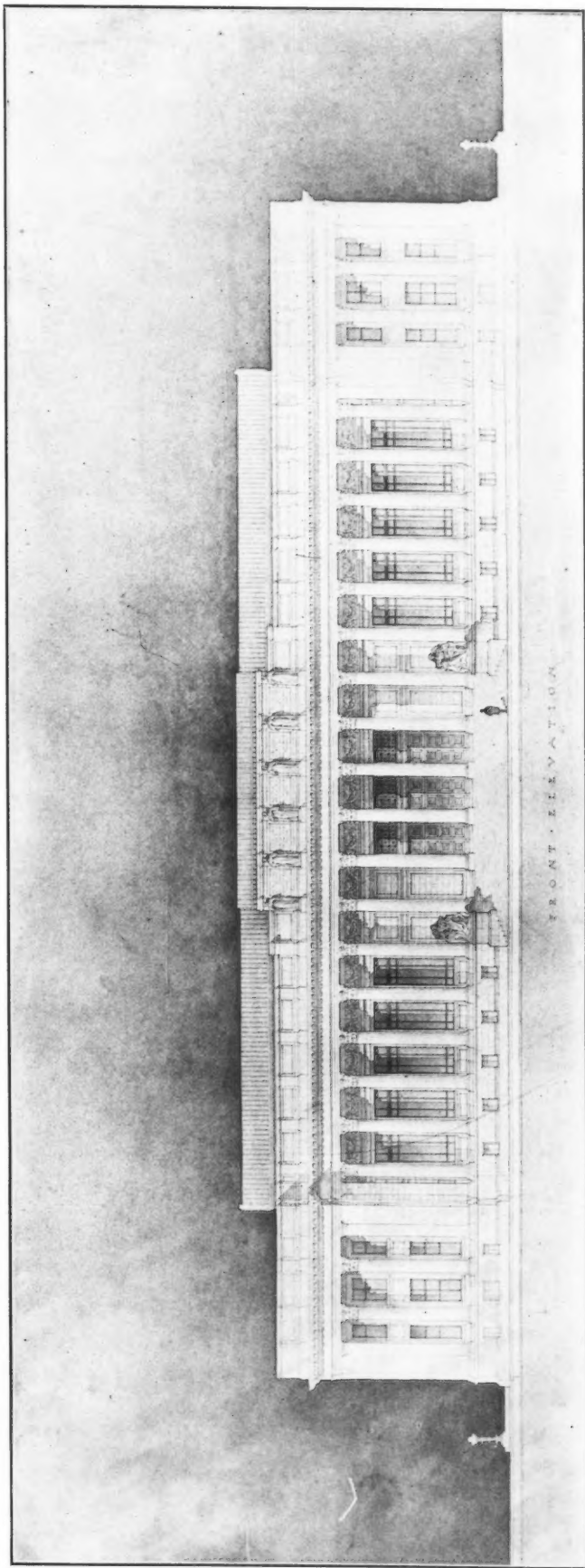
The plant will be ready to run by the first of the year. Already the town of McCleary has a population of 600, and when the big plant is running steadily there will be about 1000 people in town and nearly 400 men employed at the mills alone. The Northern Pacific has a branch to the town and a gasoline motor car will probably be put on at once and give service between McCleary and the Harbor cities.

Students Slide to Safety in Chutes

MULLAN, Idaho.—Canvas fire chutes, an innovation in life-saving apparatus, have just been installed in the Mullan public school. They proved highly satisfactory.

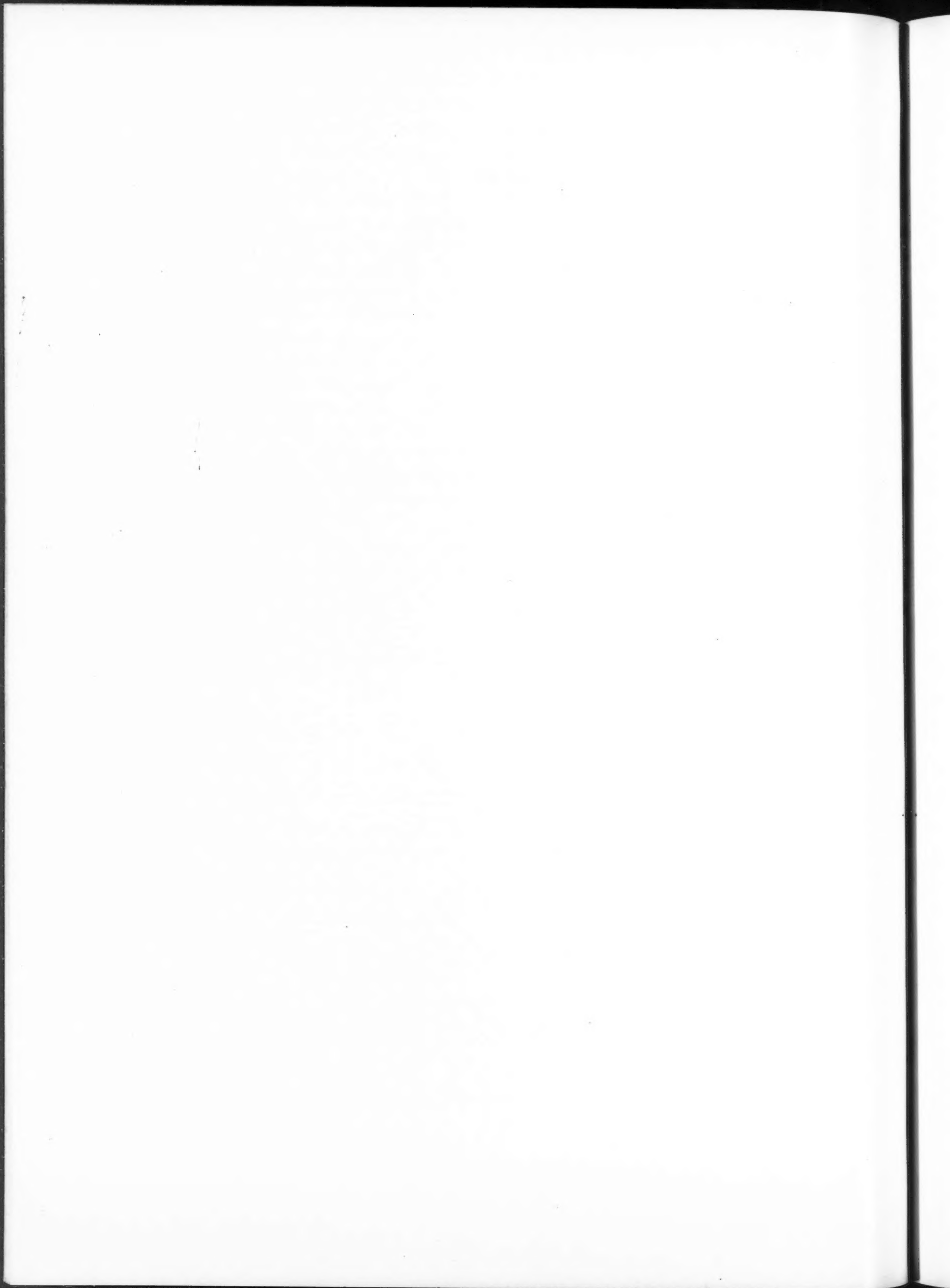
The chutes consist of flat-bottomed canvas tubes. One end is permanently fastened inside a window. The other, when in use, is held taut by two men on the ground. The angle is about 45 degrees. When out of use the canvas is rolled up and placed in a box under the window. This box serves as a step in time of need.

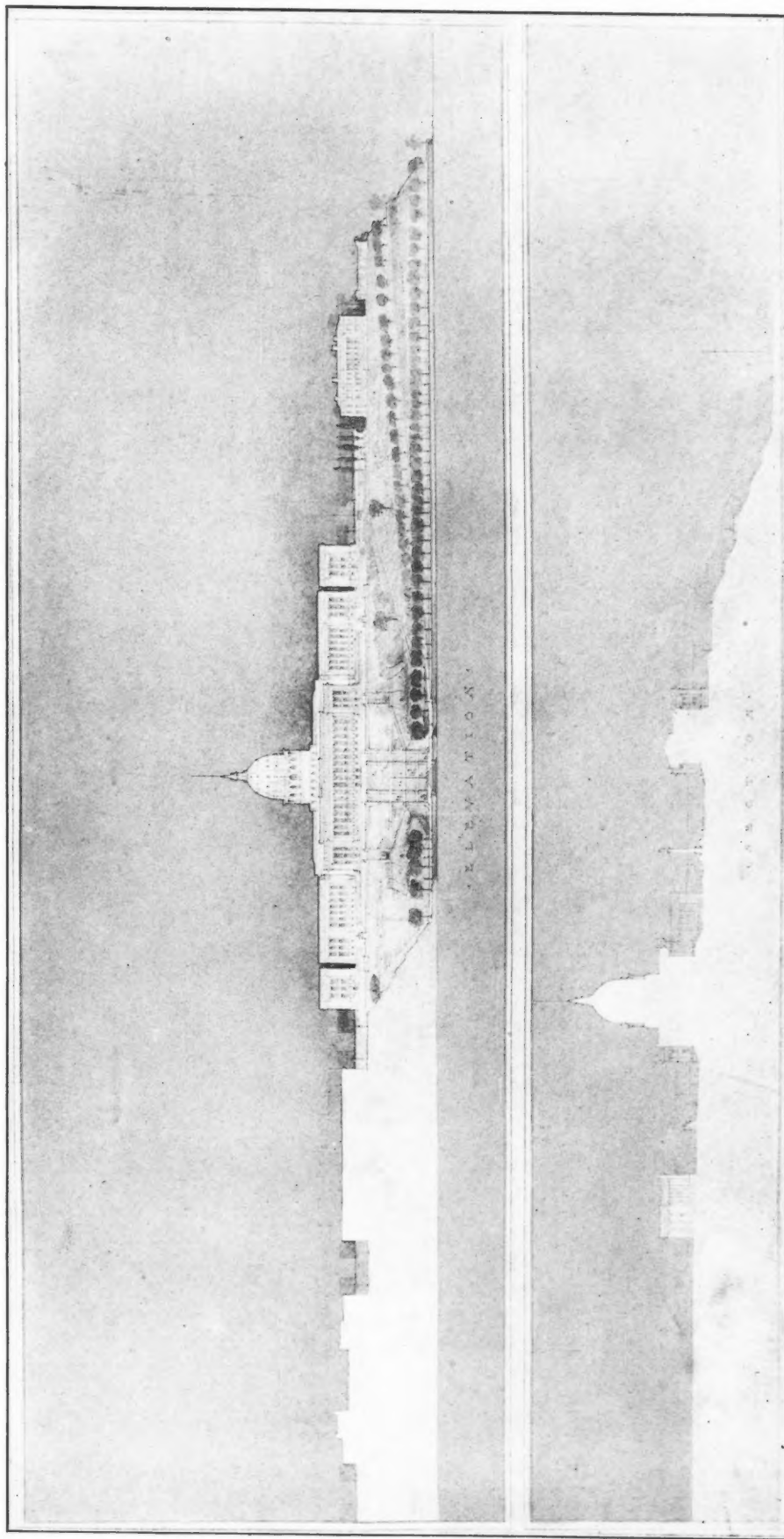
In time of fire two older students will slide down the canvas, using it as a rope. Holding by provided handles, they may stretch it tight. Other students will follow, feet first, and will be landed nearly 20 feet away from the walls.



Accepted Design, Temple of Justice
 Washington State Capitol Competition
 Wilder & White, Architects, New York

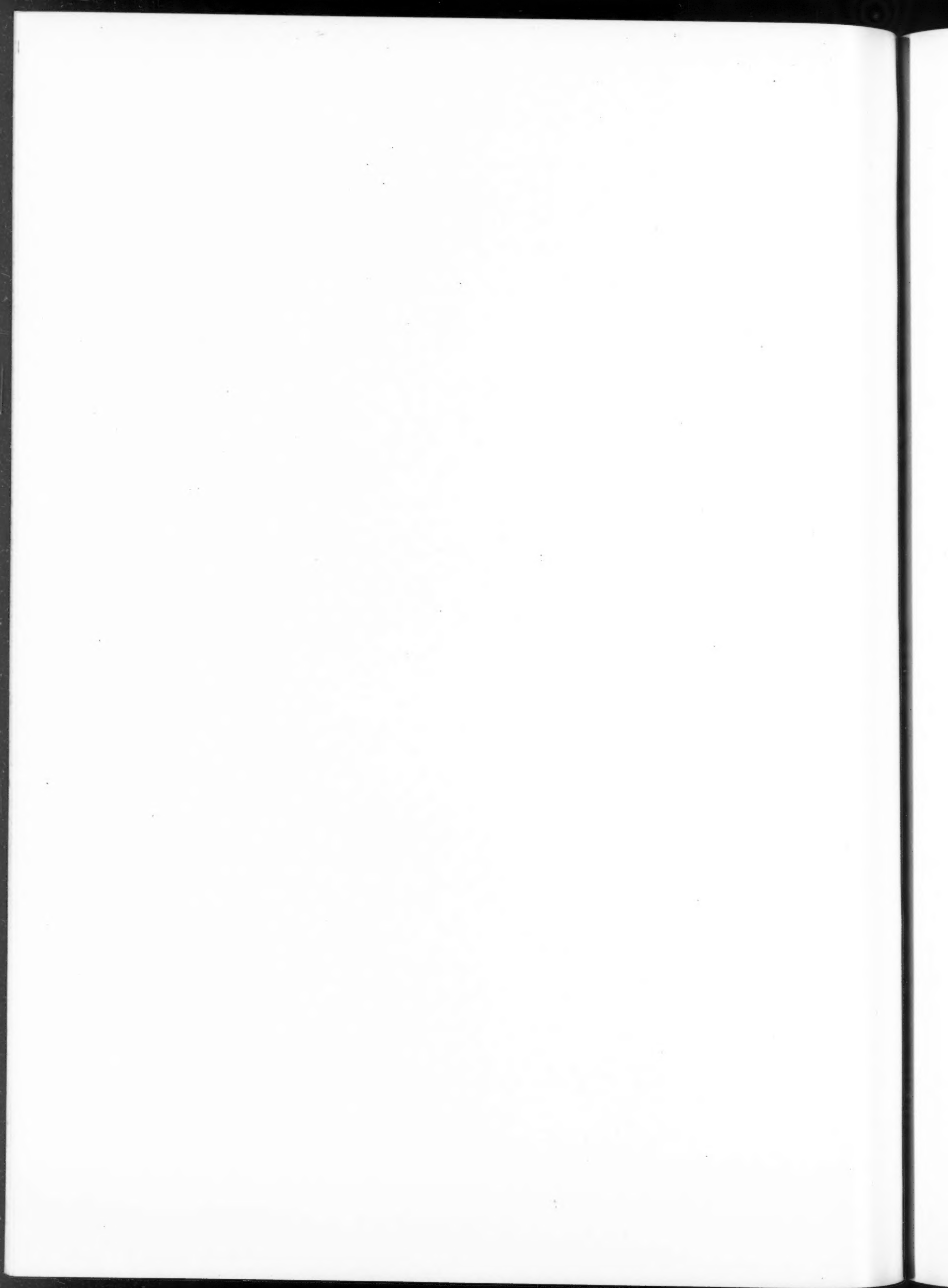
PACIFIC COAST ARCHITECT
 SEPTEMBER, 1911

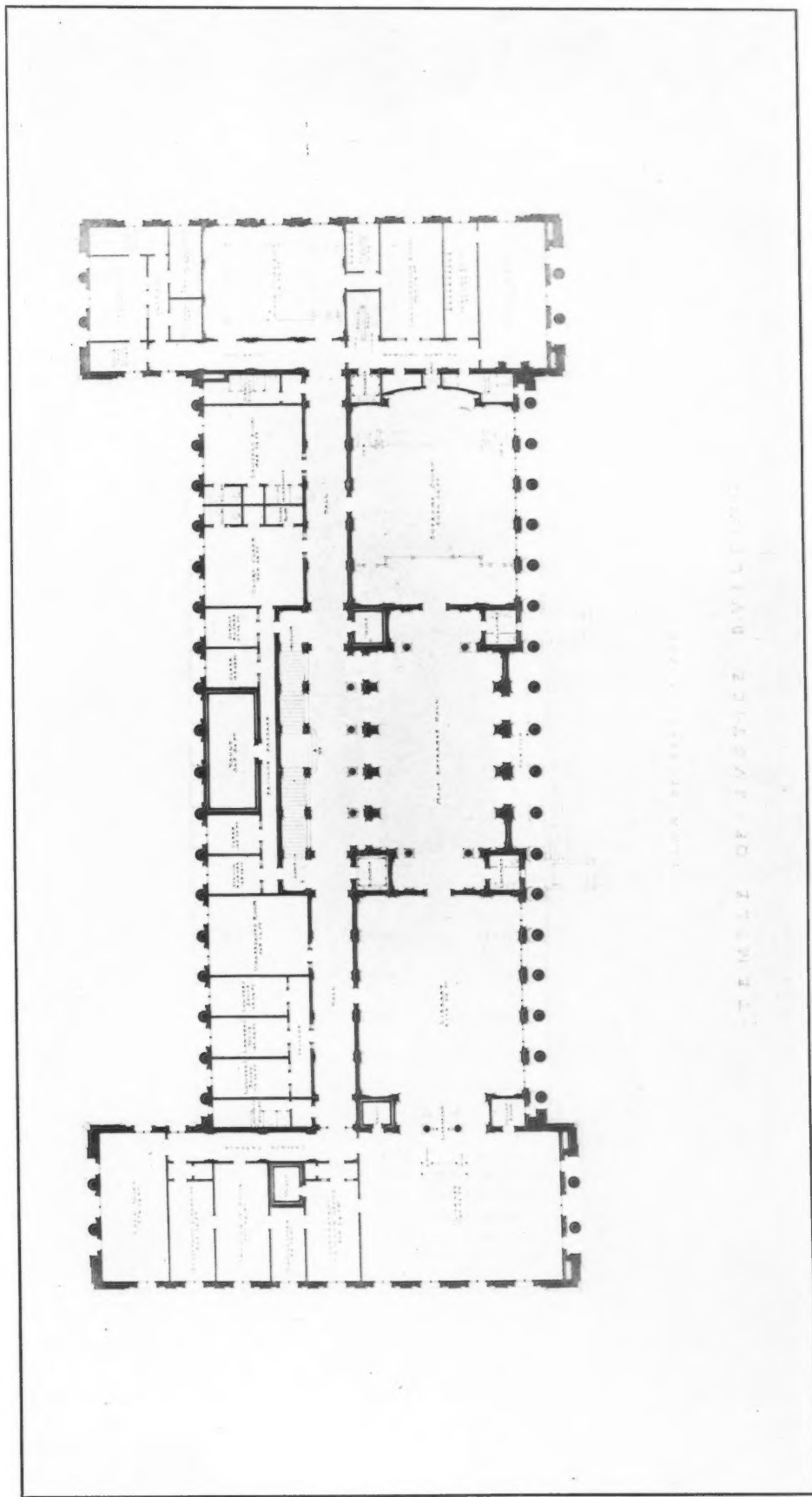




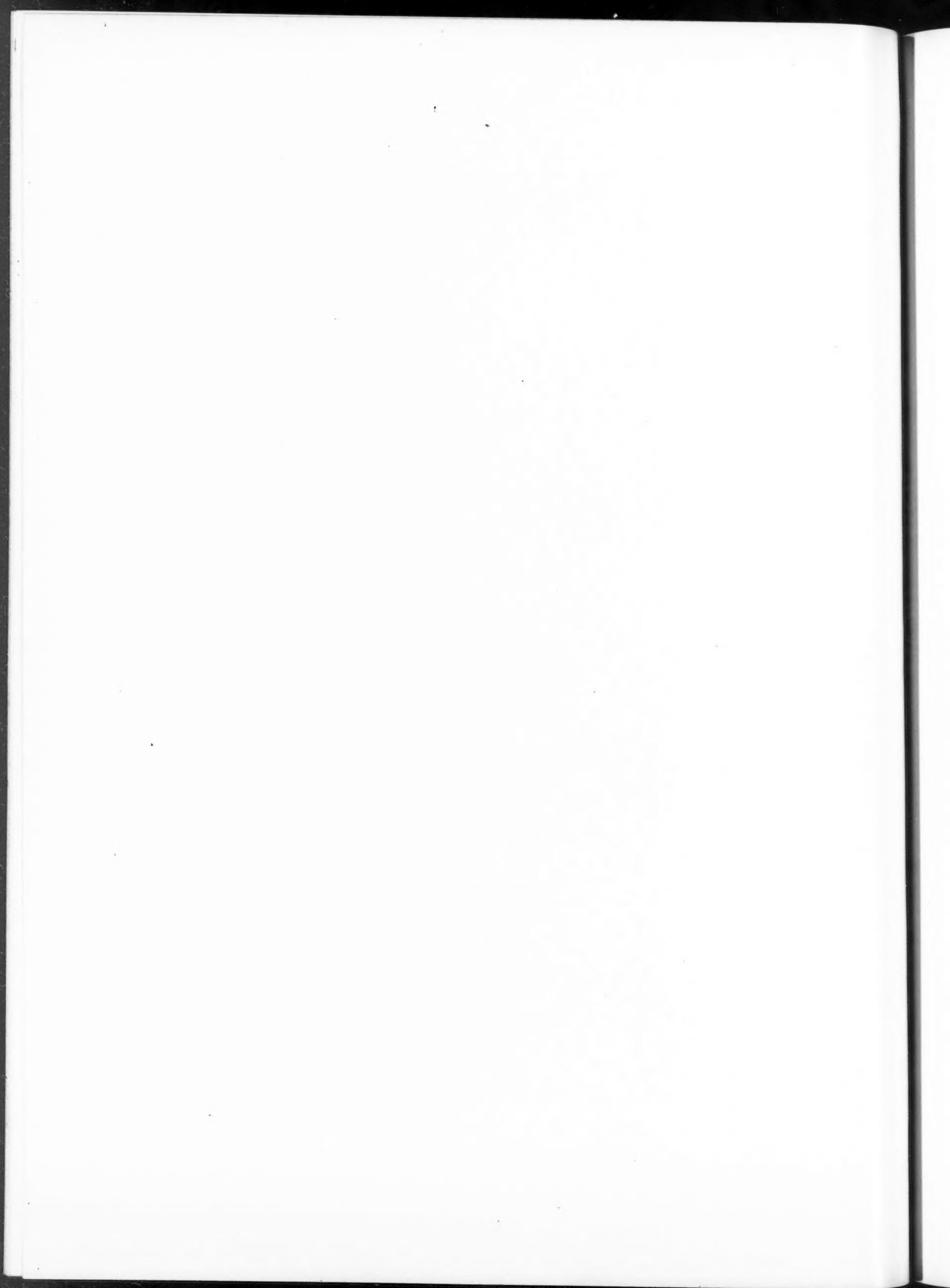
Accepted Design, Elevation
 Washington State Capitol Competition
 Wilder & White, Architects, New York

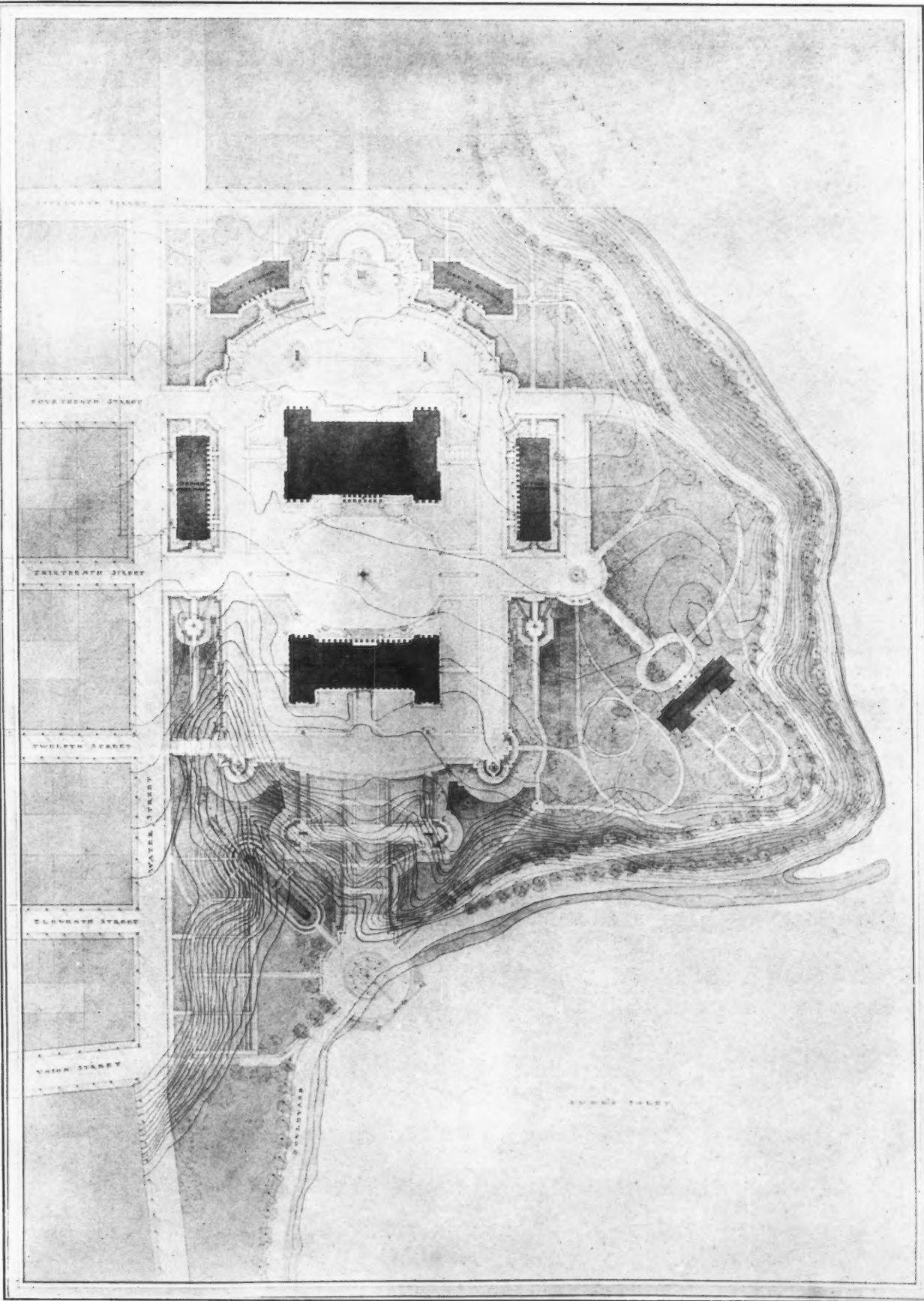
PACIFIC COAST ARCHITECT
 SEPTEMBER, 1911





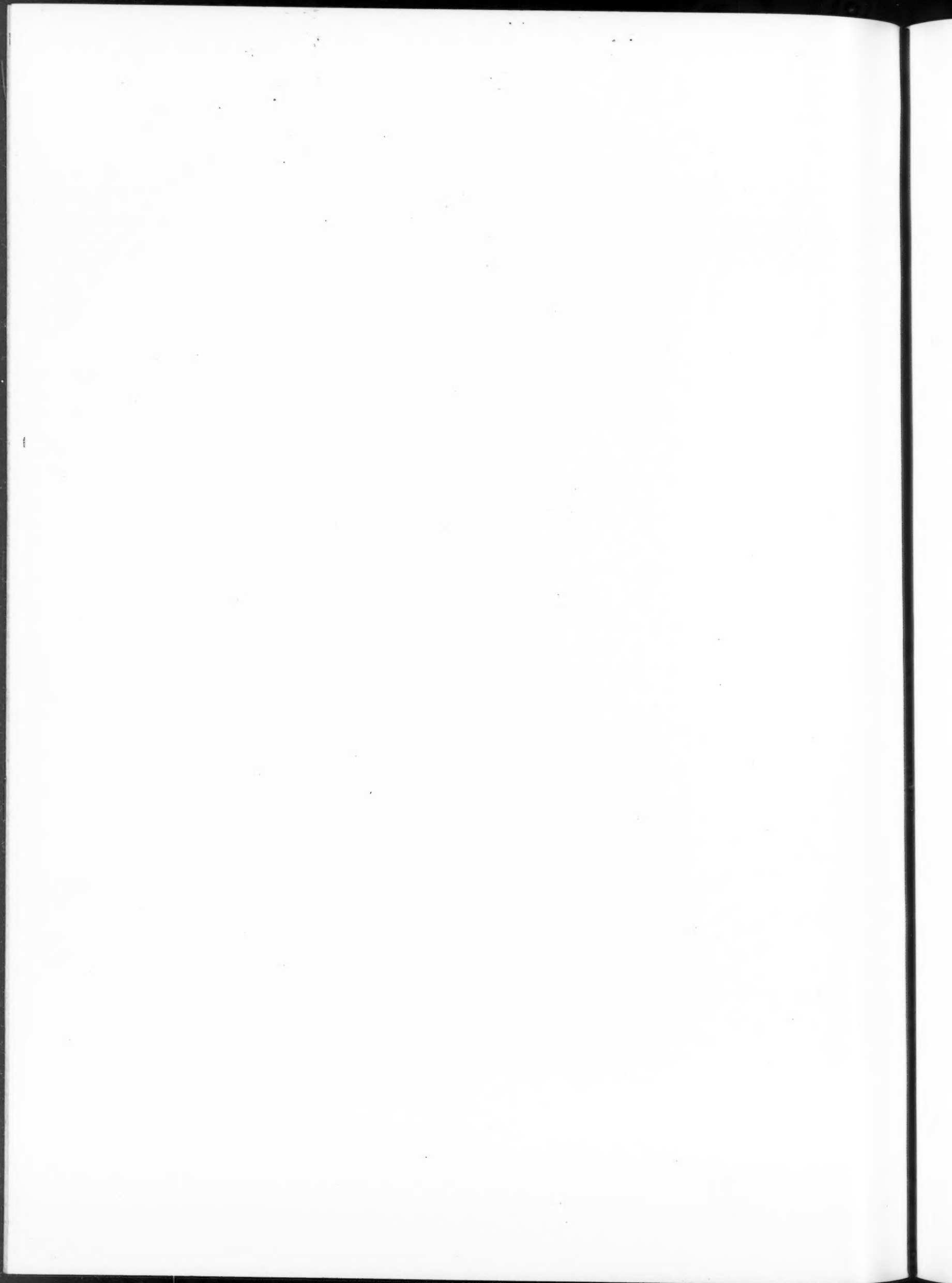
First Floor Plan, Accepted Design, Temple of Justice
 Washington State Capitol Competition
 Wilder & White, Architects, New York

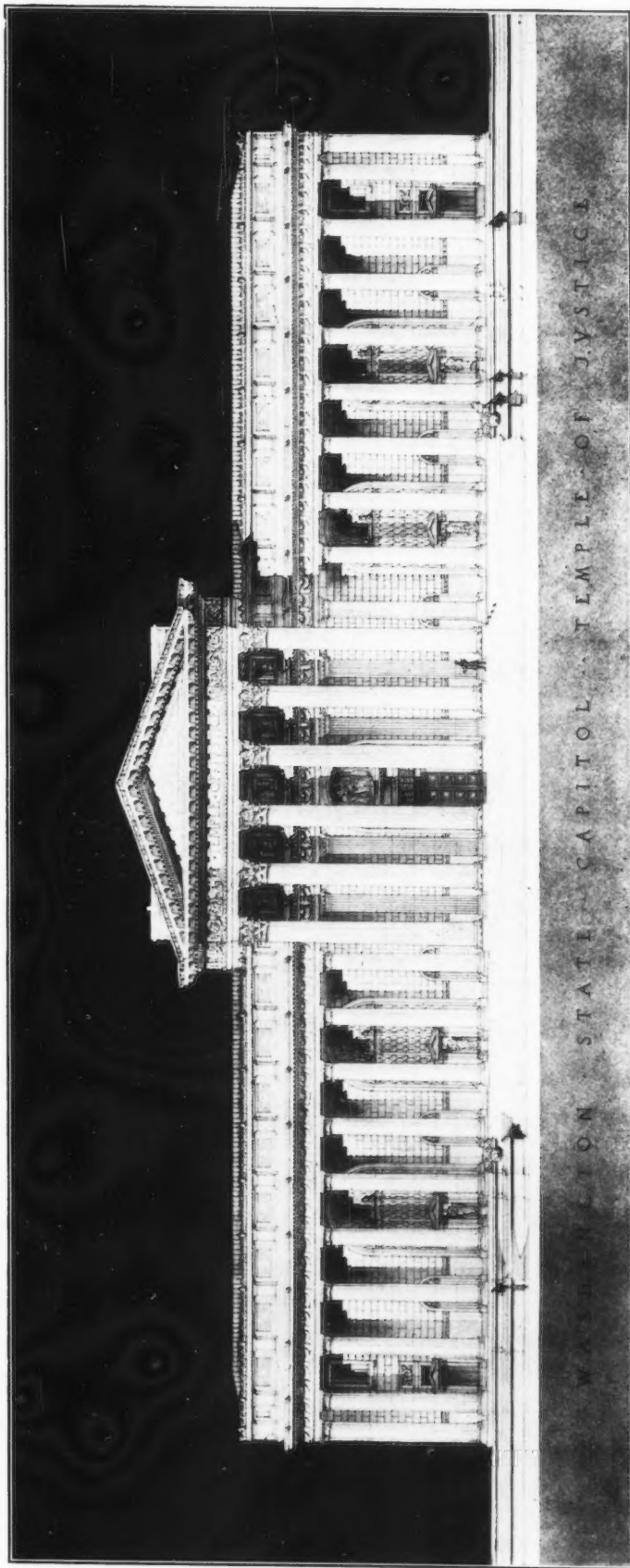




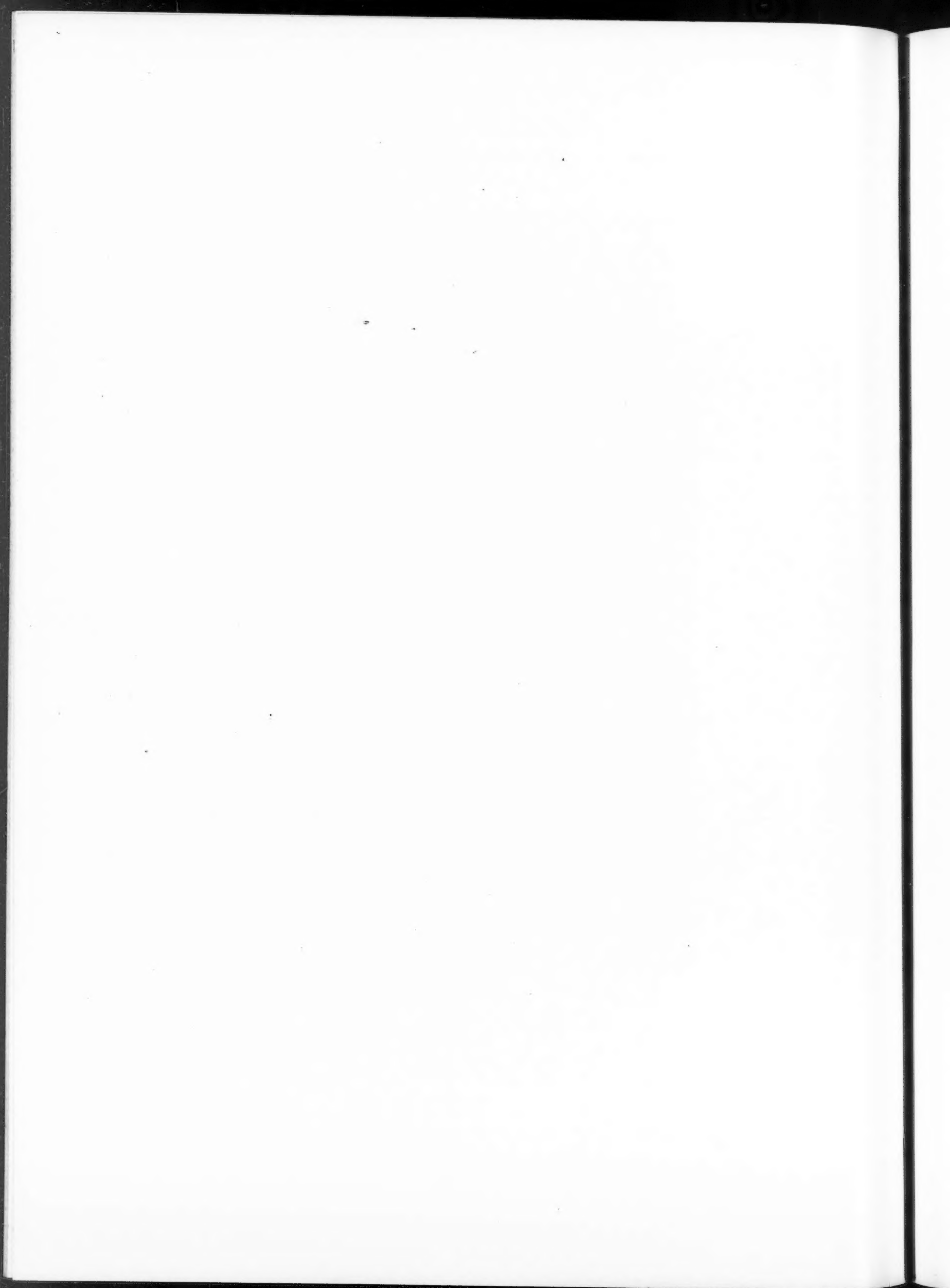
PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

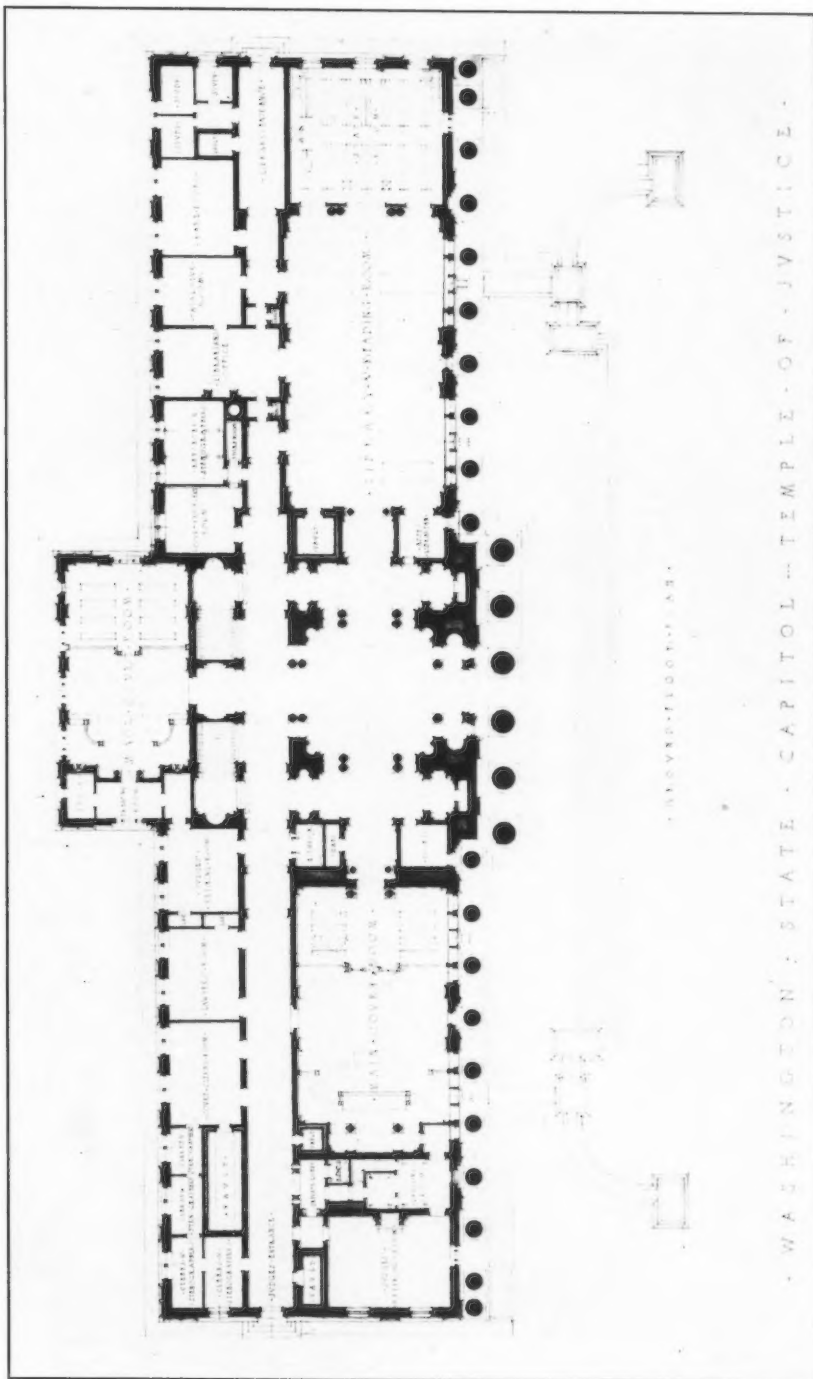
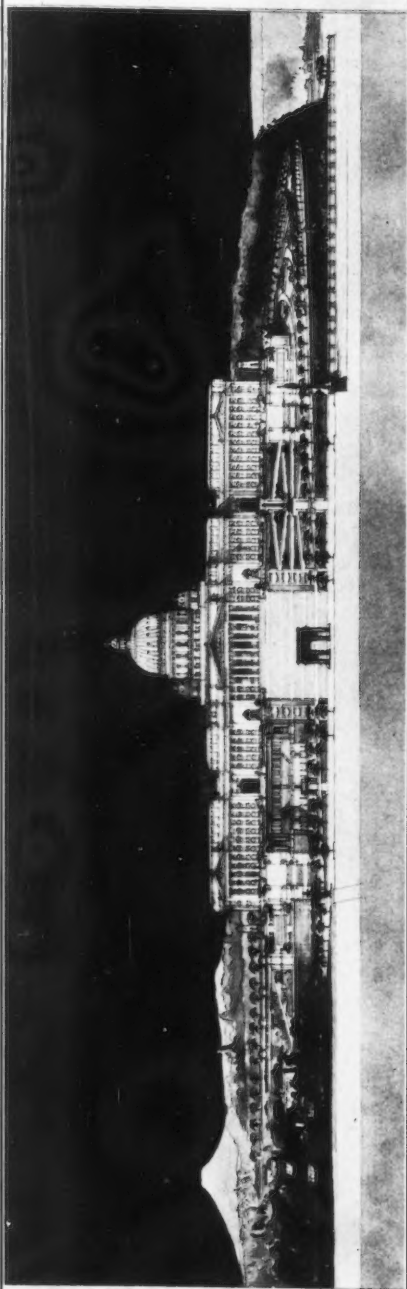
Accepted Design, Group Plan
Washington State Capitol Competition
Wilder & White, Architects, New York





Second Prize, Temple of Justice
Washington State Capitol Competition
Howells & Stokes, Architects New York

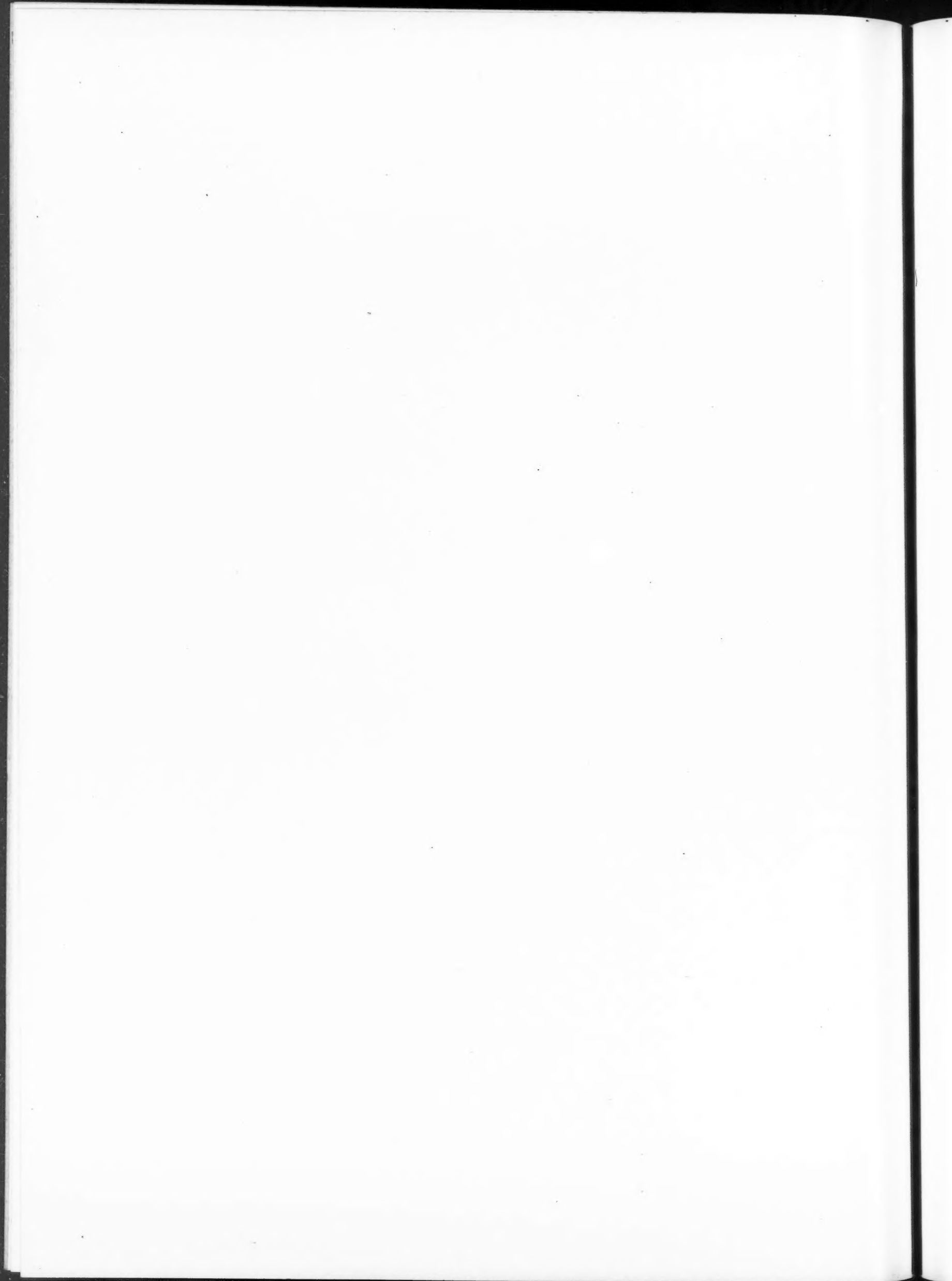


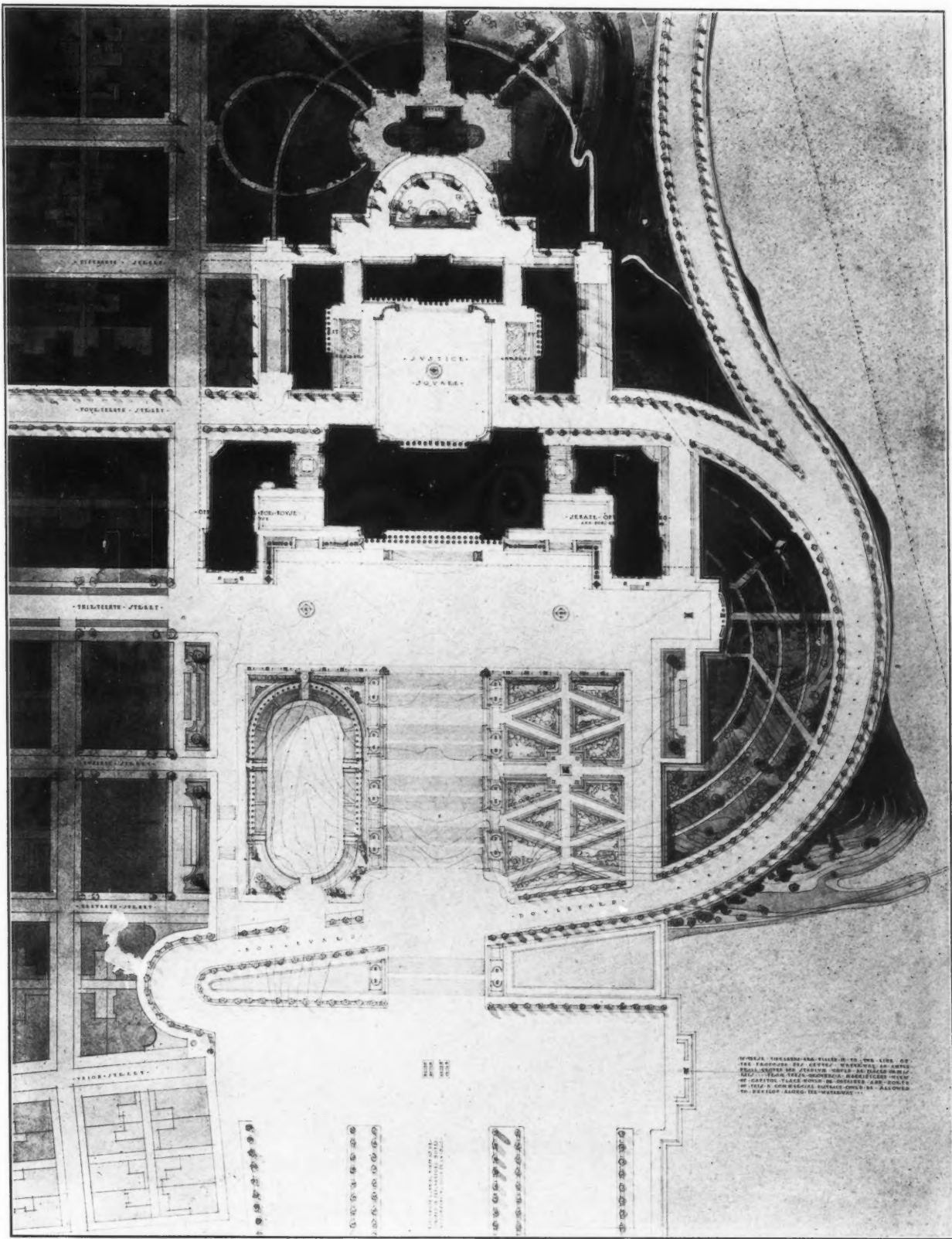


WASHINGTON: STATE - CAPITOL - TEMPLE OF JUSTICE -

Second Prize, Elevation and First Floor Plan, Temple of Justice
Washington State Capitol Competition
Howells & Stokes, Architects, New York

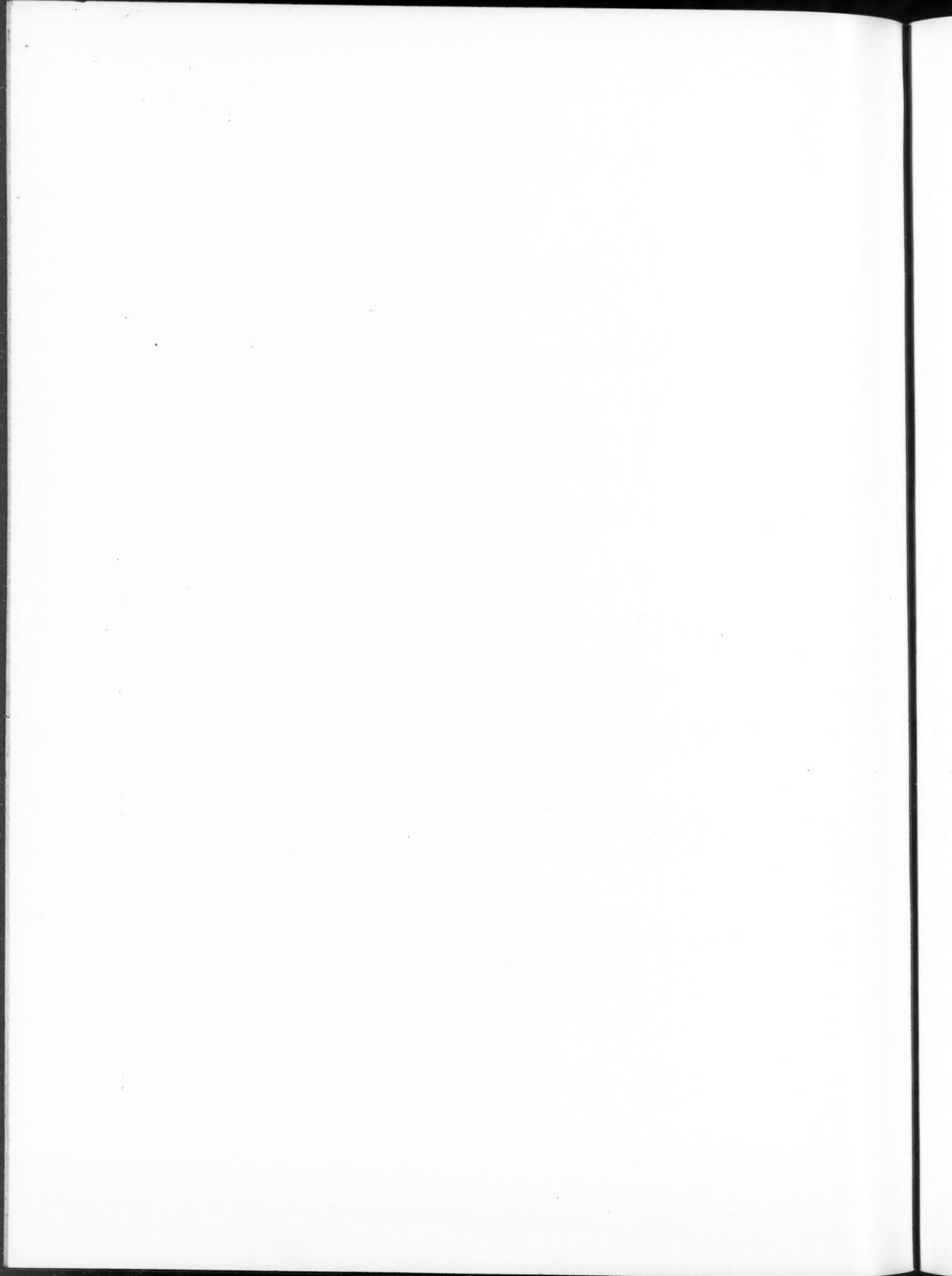
PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

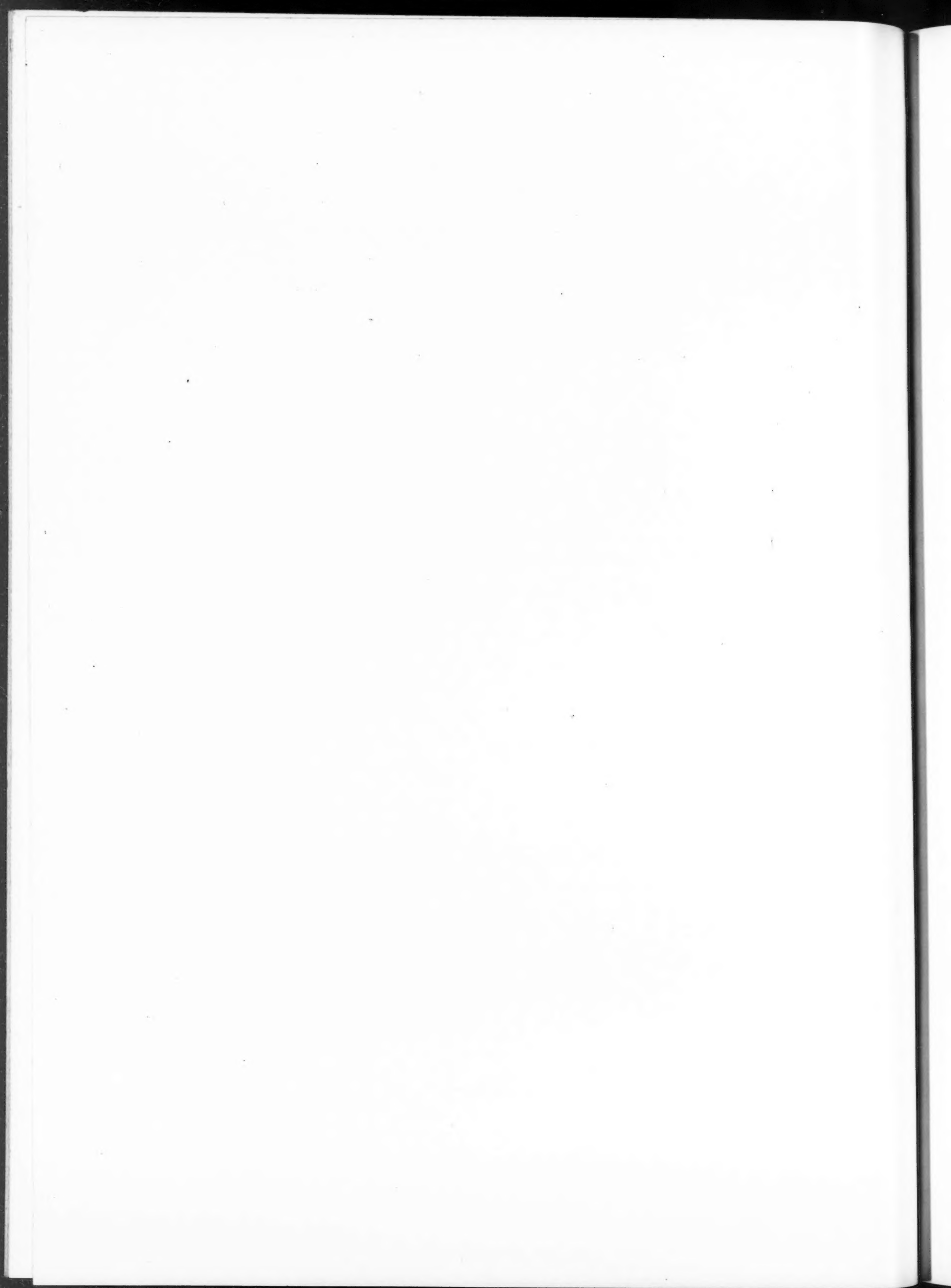


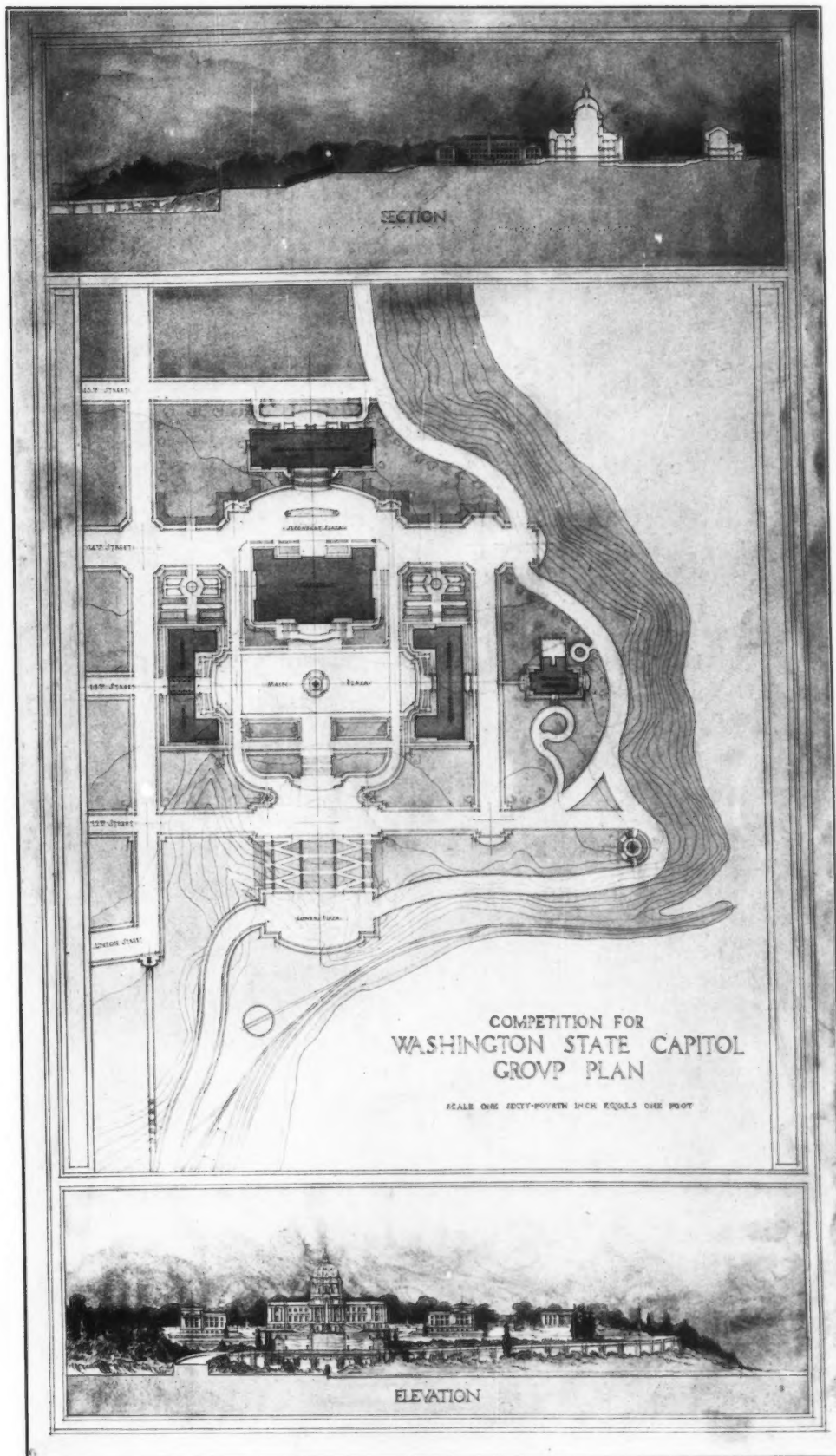


Second Prize, Group Plan
Washington State Capitol Competition
Howells & Stokes, Architects, New York

PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

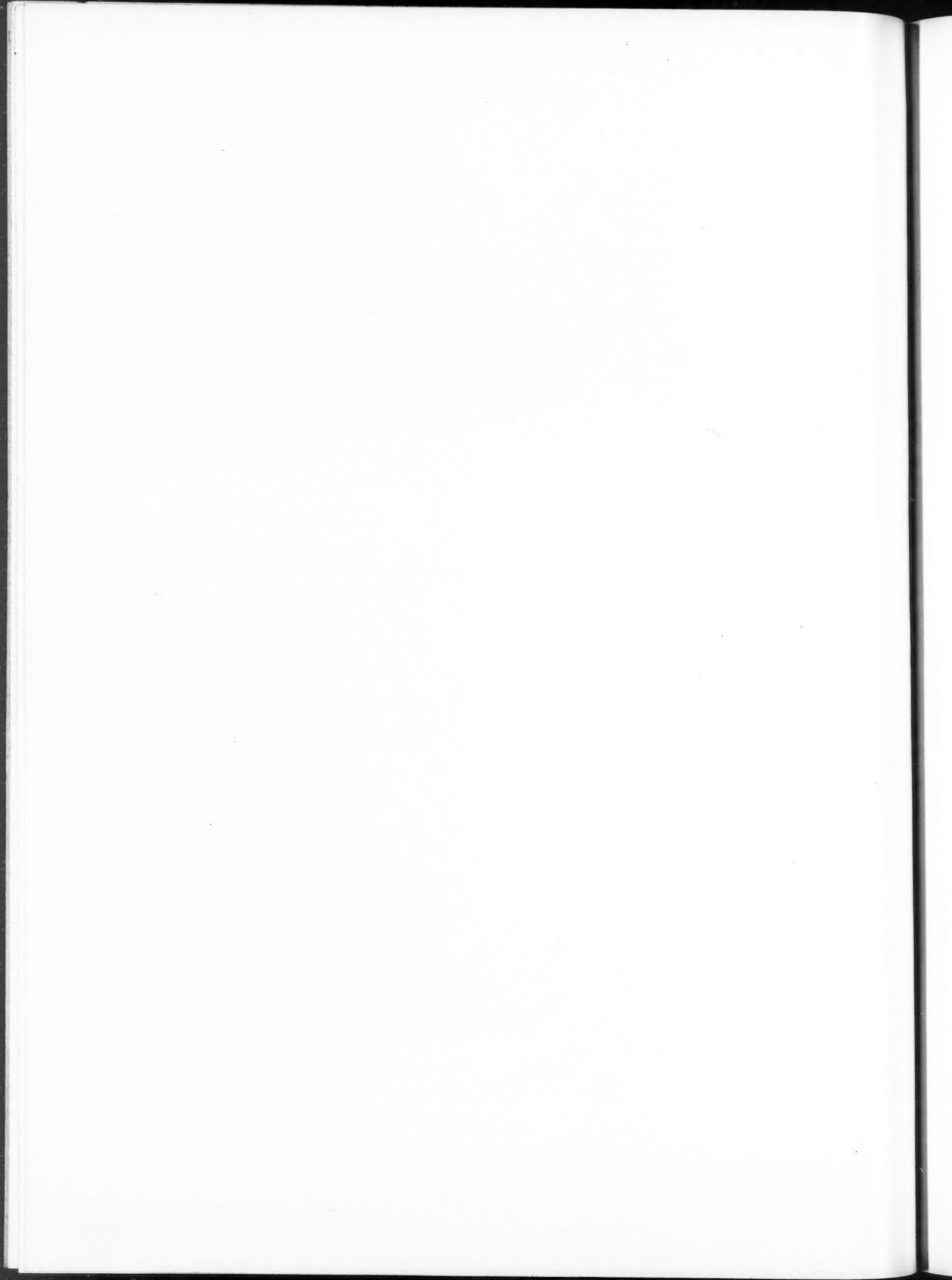






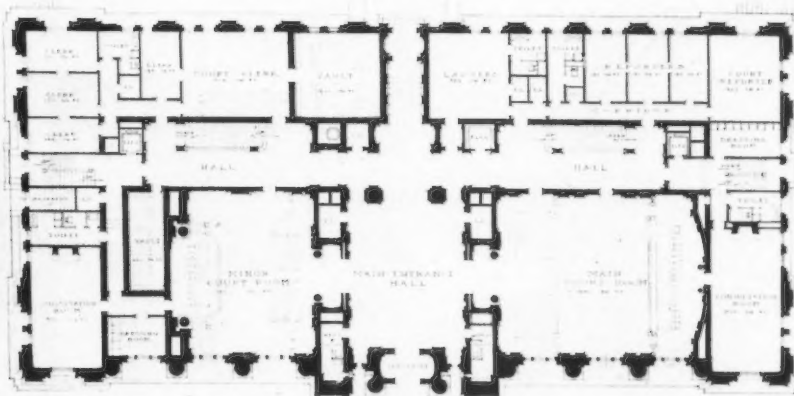
PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

Third Prize, Elevation and Group Plan
Washington State Capitol Competition
Mr. David J. Myers, Architect, Seattle, Wash.





FRONT ELEVATION



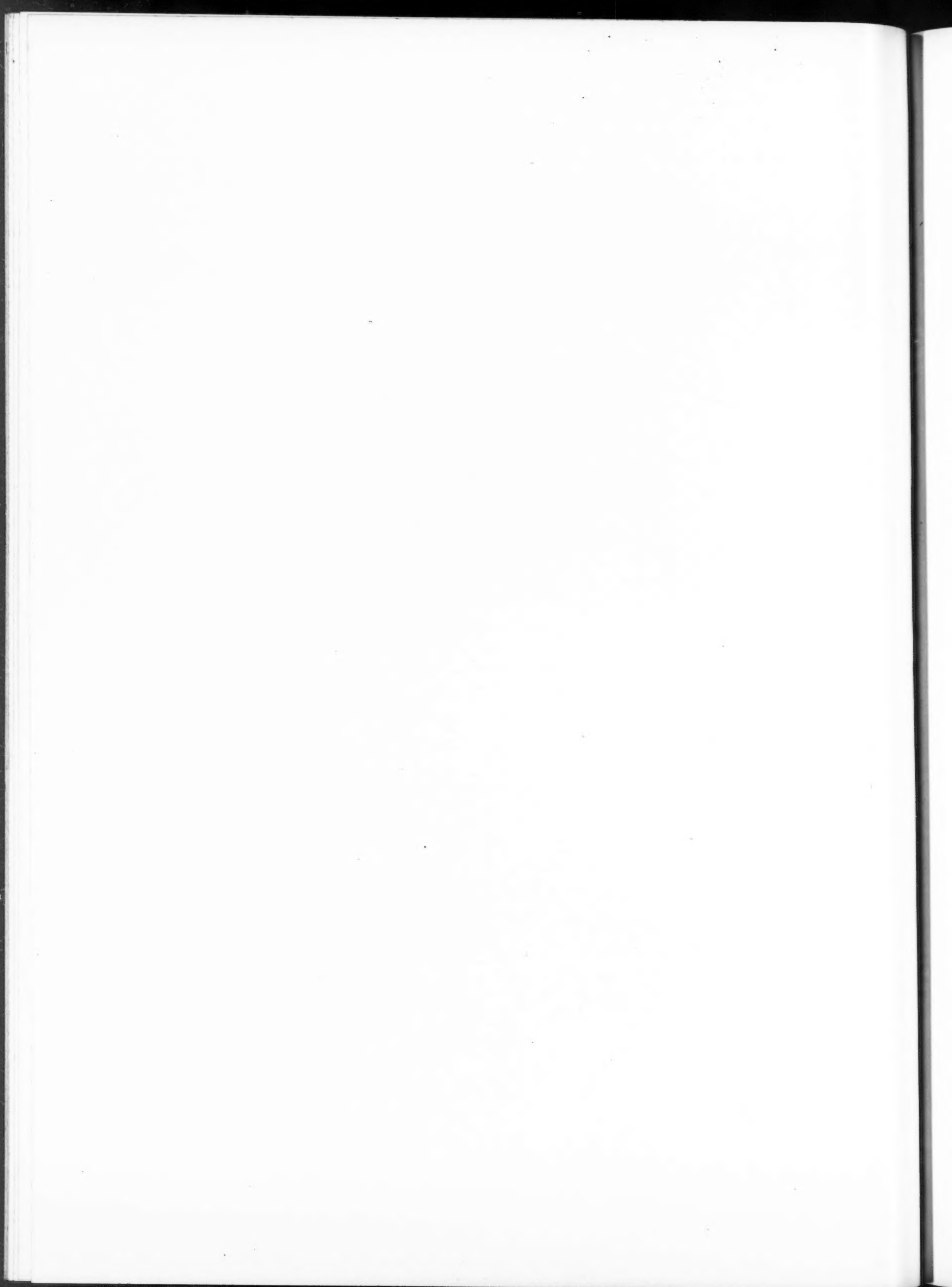
PLAN OF FIRST FLOOR
SCALE: 1/8" = 10' 0" (30.48 METERS)

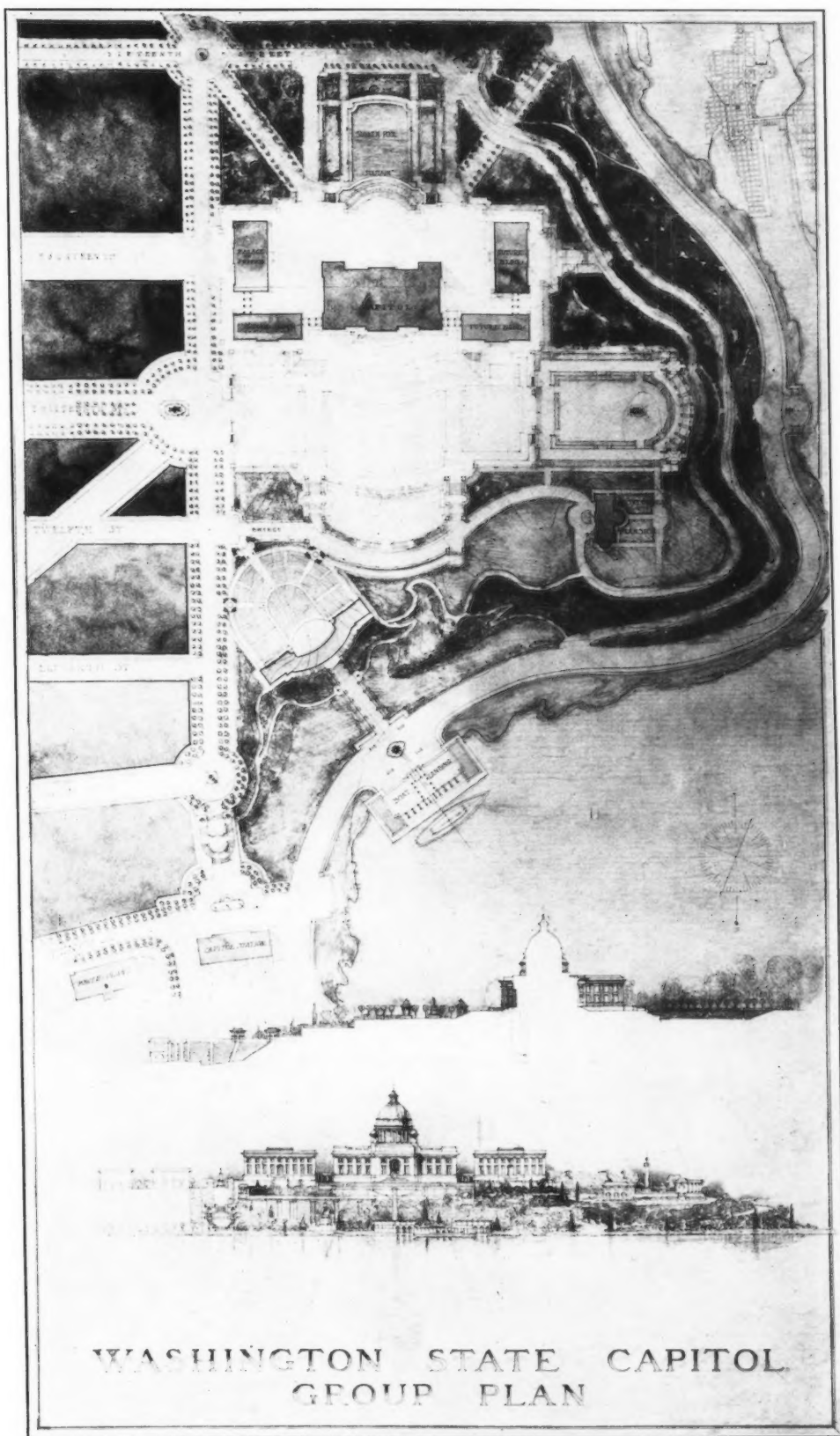
WASHINGTON • STATE • CAPITOL TEMPLE • OF • JUSTICE

Fourth Prize, Temple of Justice and First Floor Plan
Washington State Capitol Competition

PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

Willcox & Sayward, Huntington & Gould, Mr. Charles H. Alden, Associated Architects, Seattle, Wash.



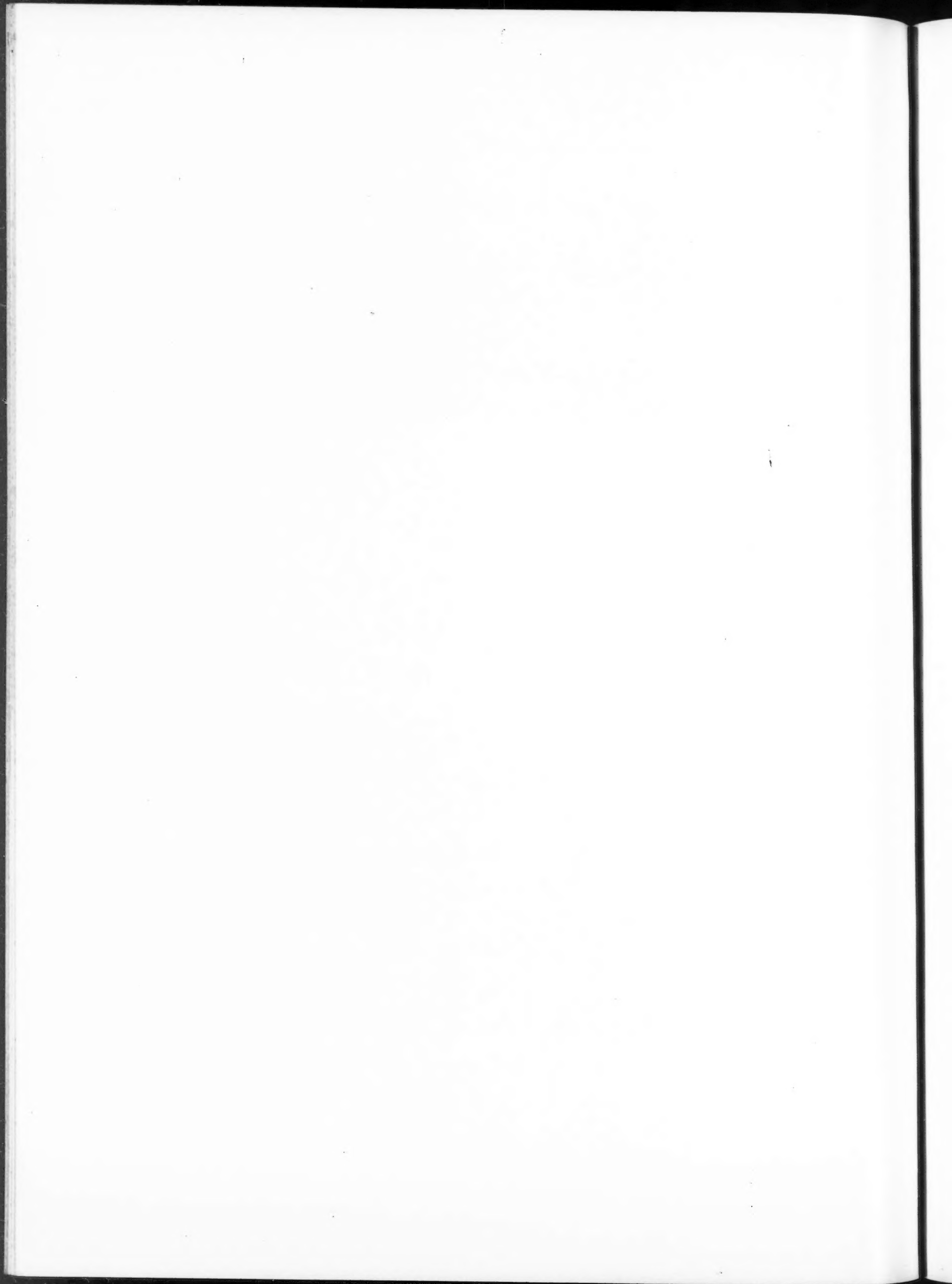


WASHINGTON STATE CAPITOL GROUP PLAN

Fourth Prize, Elevation and Group Plan
Washington State Capitol Competition

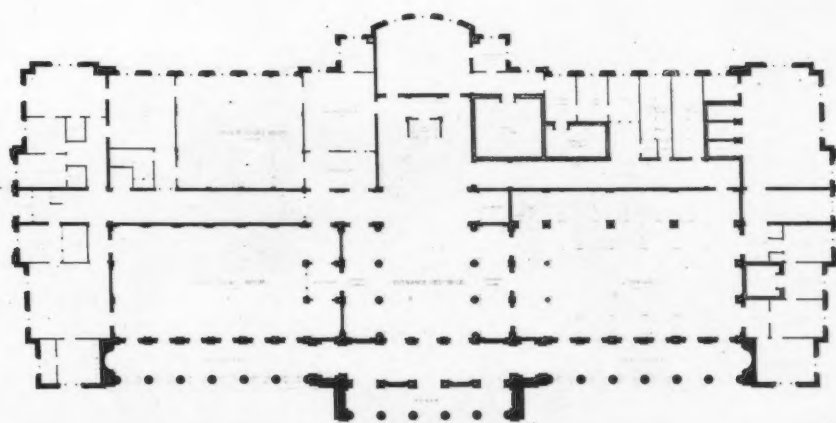
Willcox & Sayward, Huntington & Gould, Mr. Charles H. Alden, Associated Architects, Seattle, Wash.

PACIFIC COAST ARCHITECT
SEPTEMBER, 1911



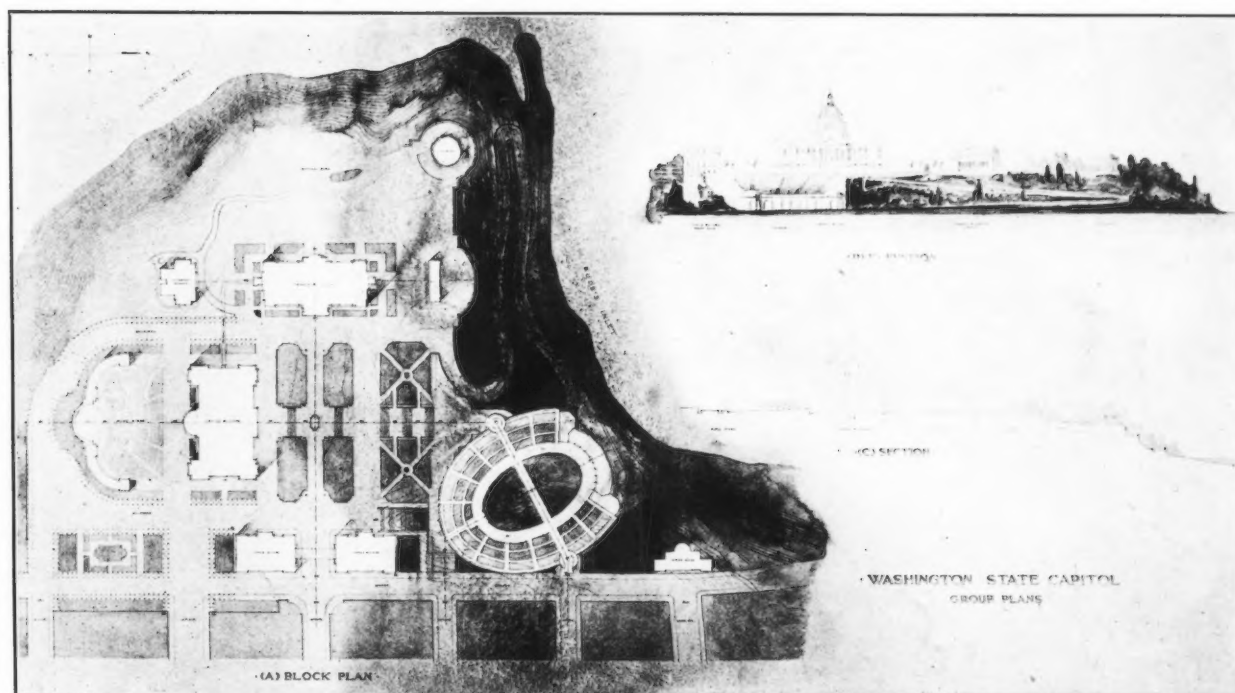
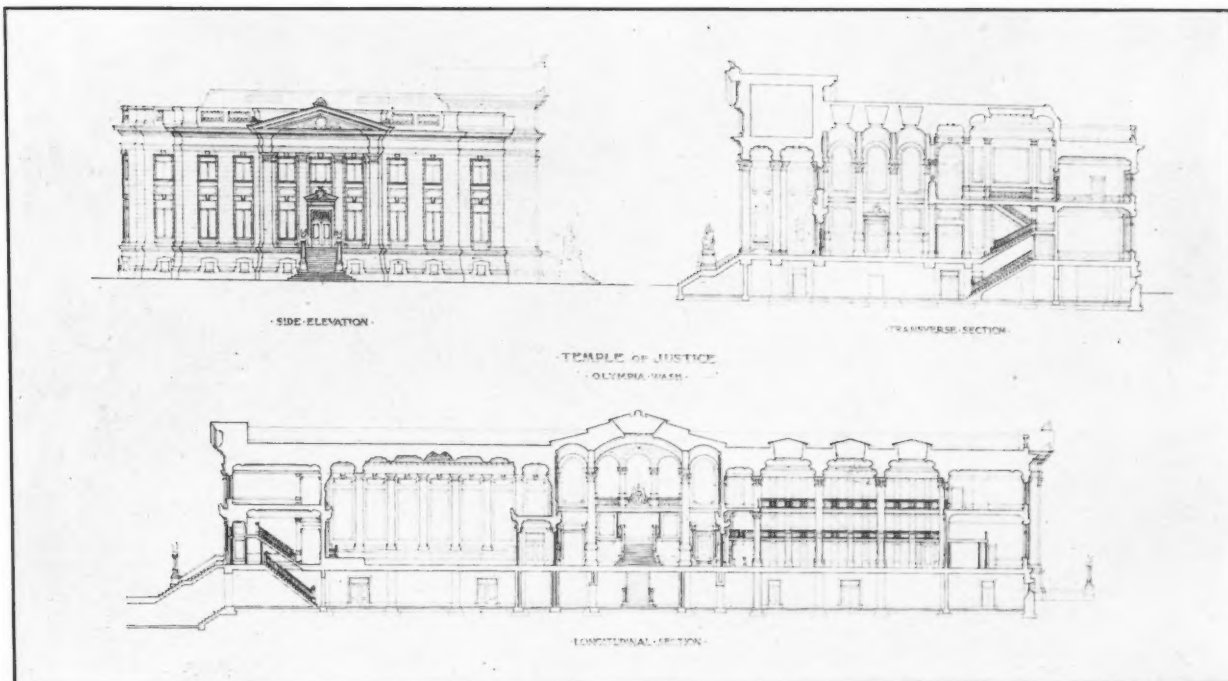


TEMPLE OF JUSTICE
COLUMBIA WASH.
FRONT ELEVATION

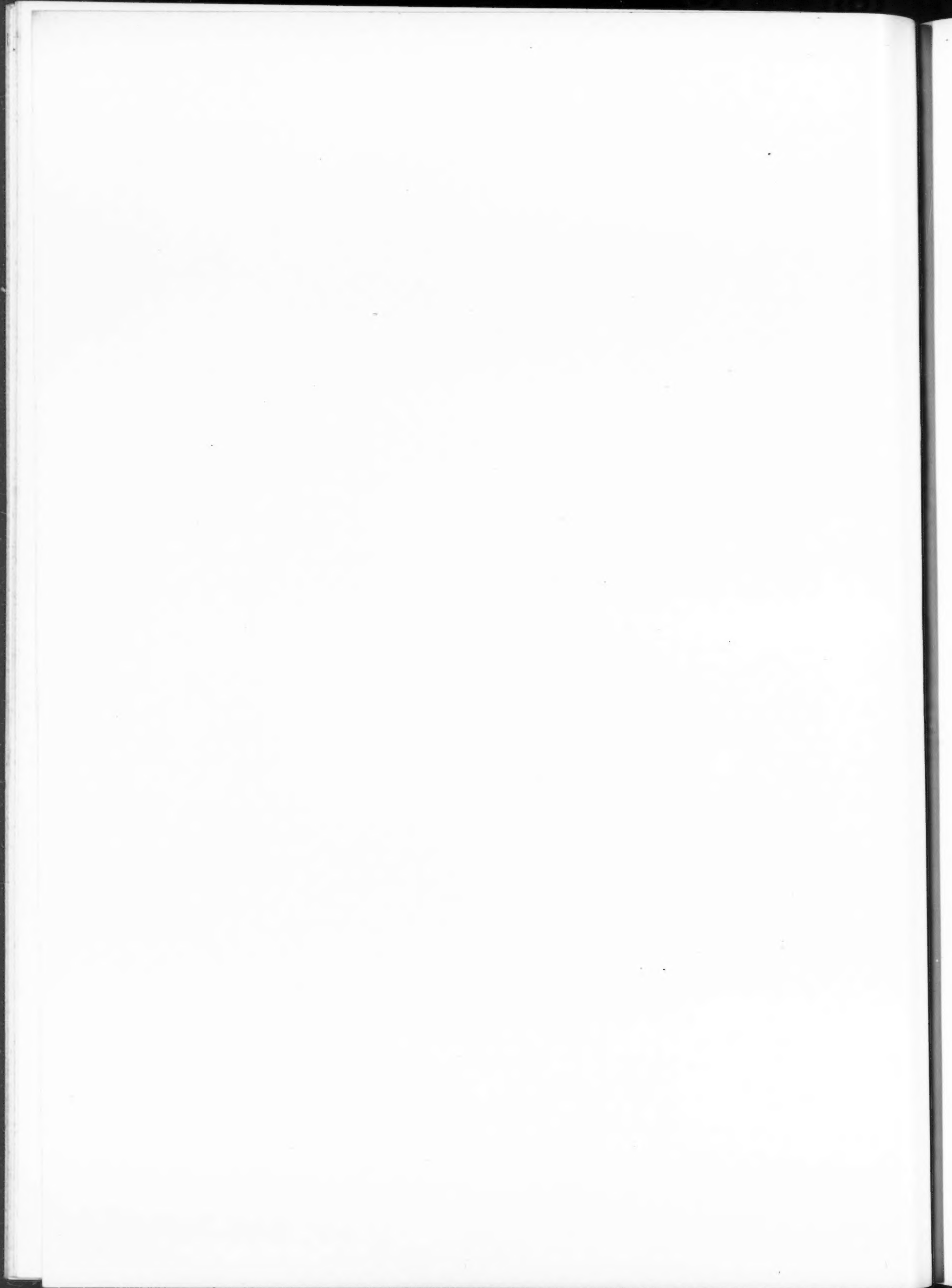


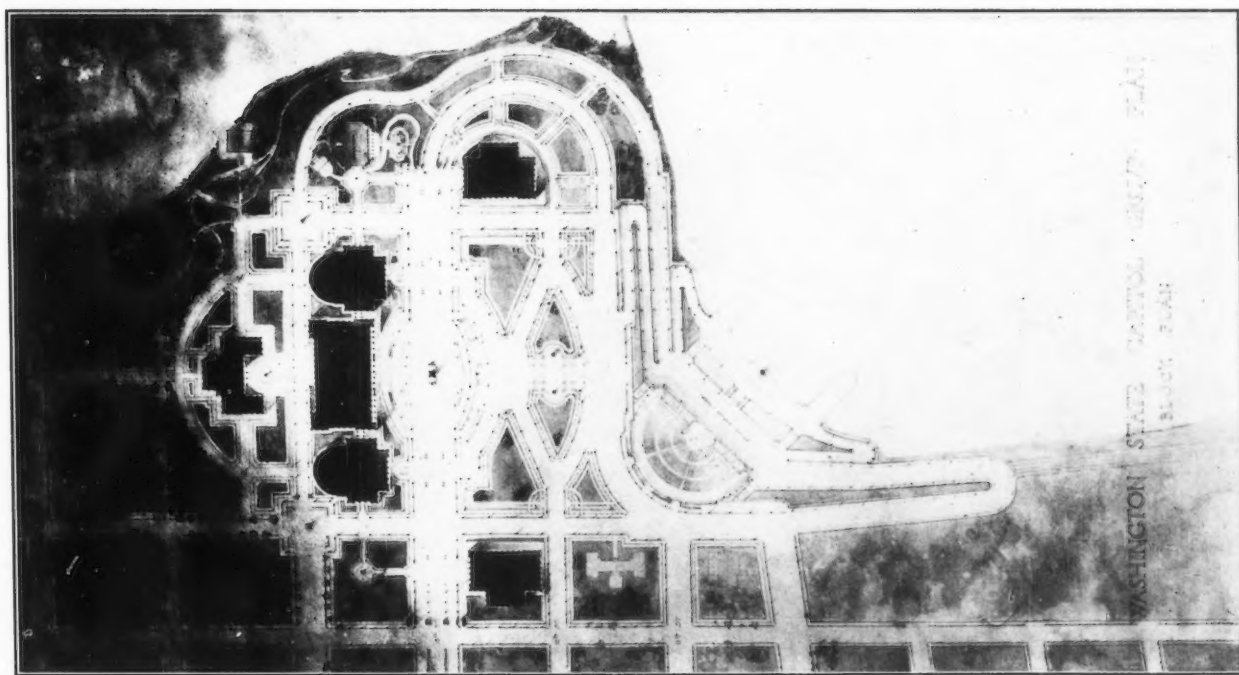
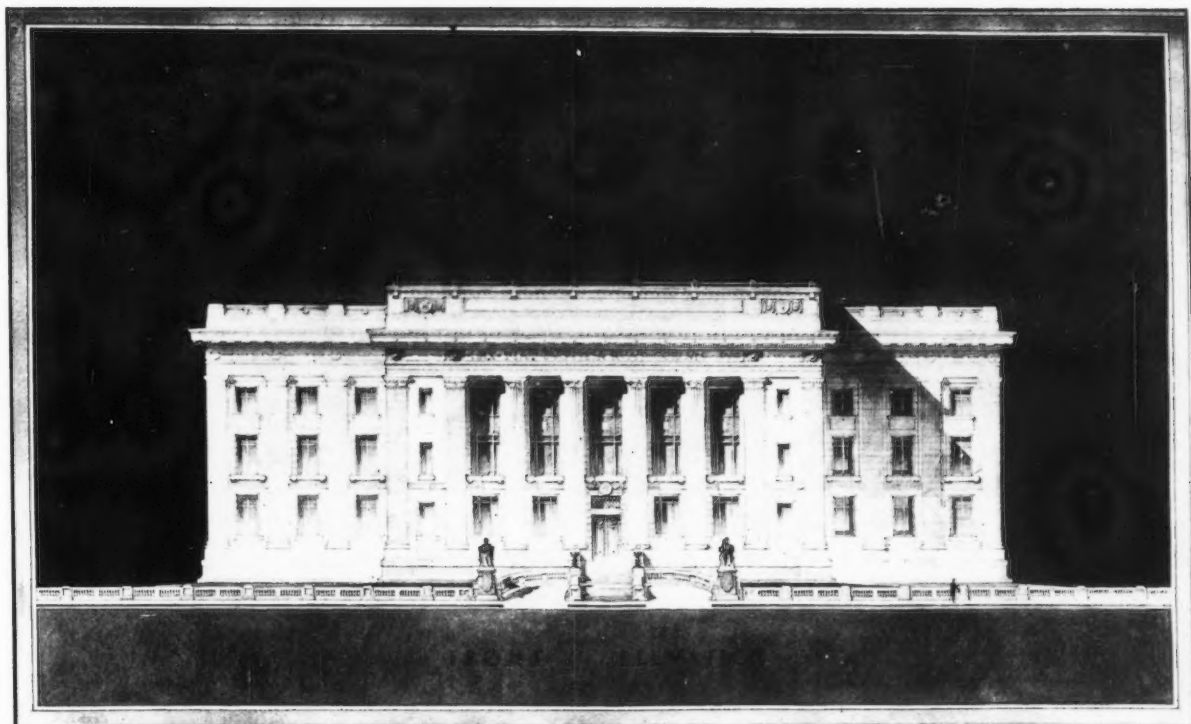
TEMPLE OF JUSTICE
COLUMBIA WASH.
FIRST FLOOR PLAN

First Honorable Mention, Temple of Justice and First Floor Plan
Washington State Capitol Competition
Mr. G. Albert Lansburgh, Architect, San Francisco, Calif.

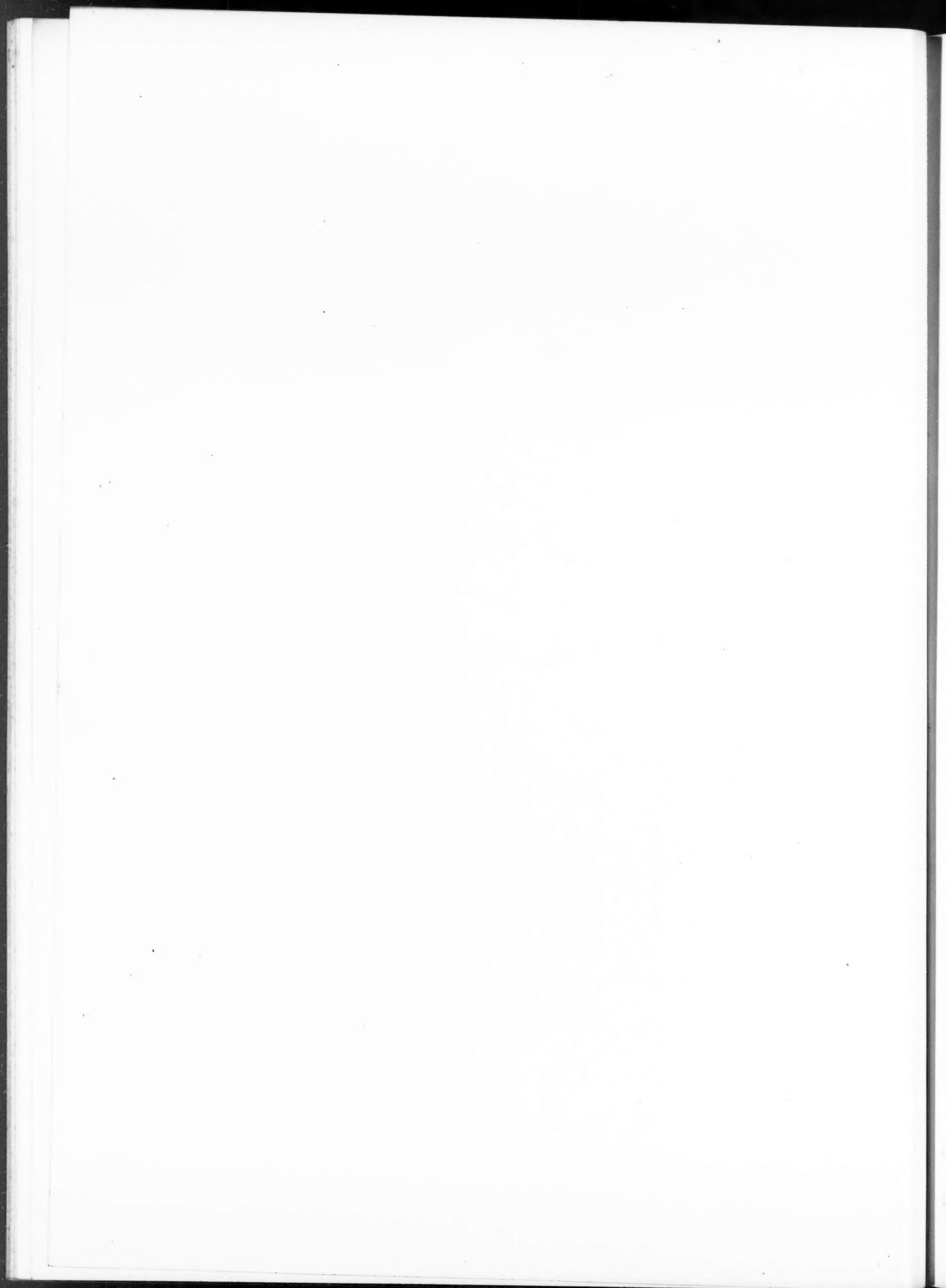


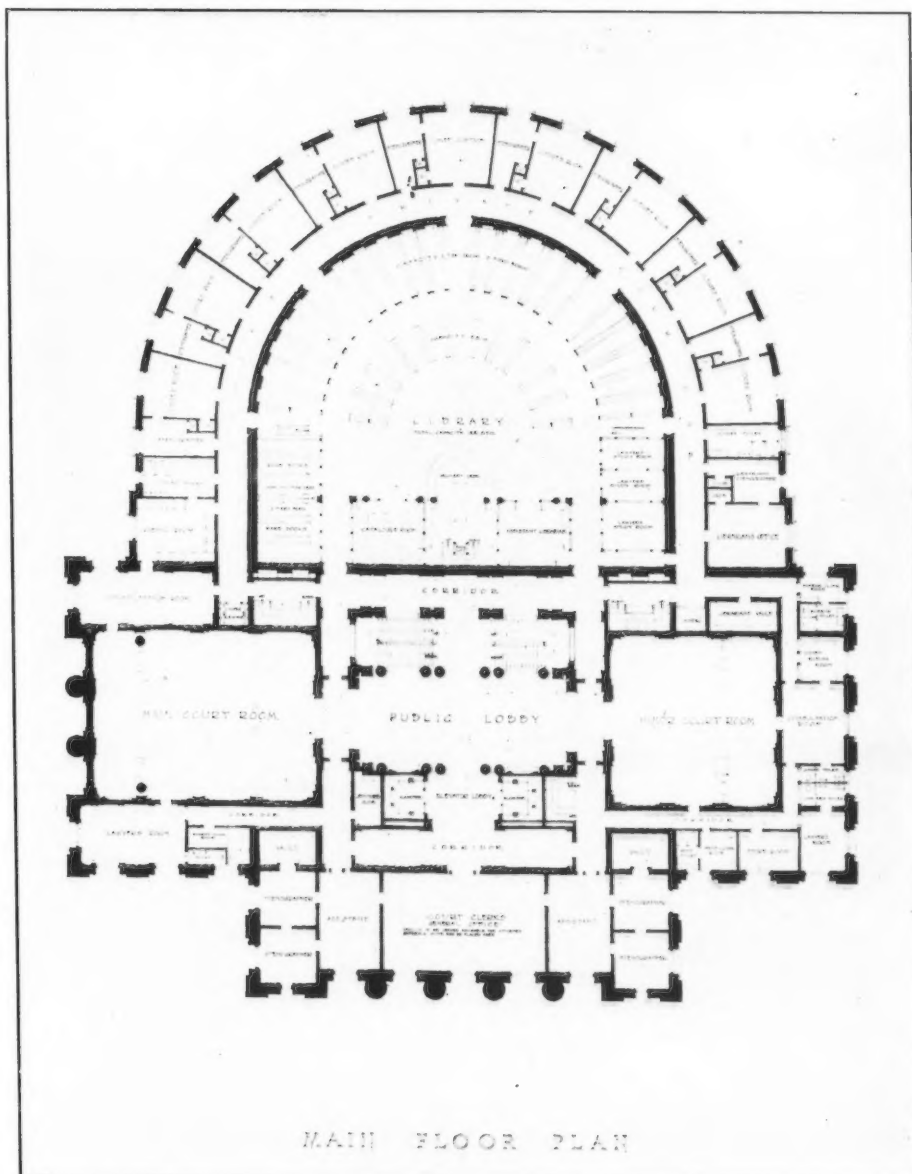
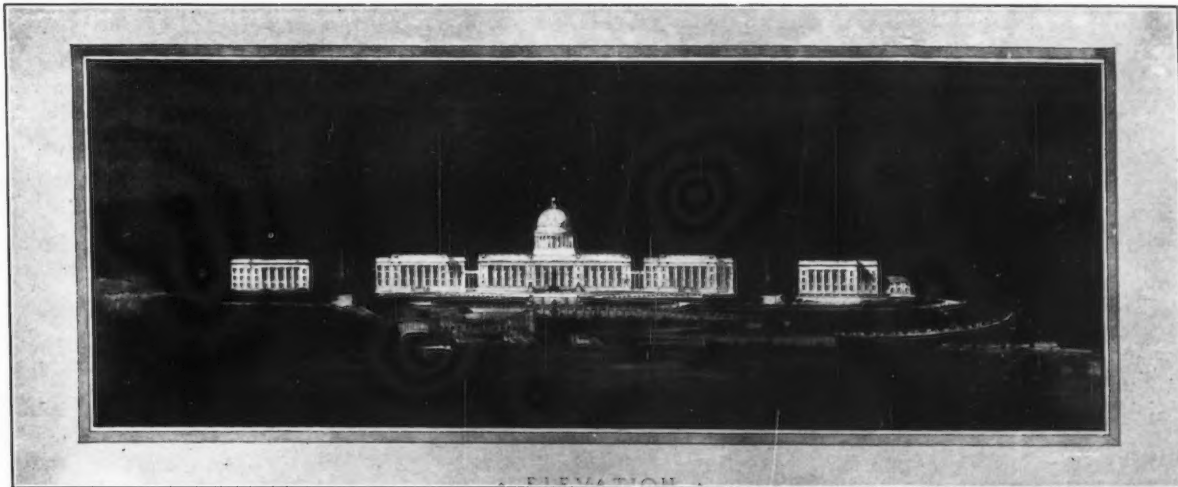
First Honorable Mention, Elevation and Group Plan
Washington State Capitol Competition
Mr. G. Albert Lansburgh, Architect, San Francisco, Calif.





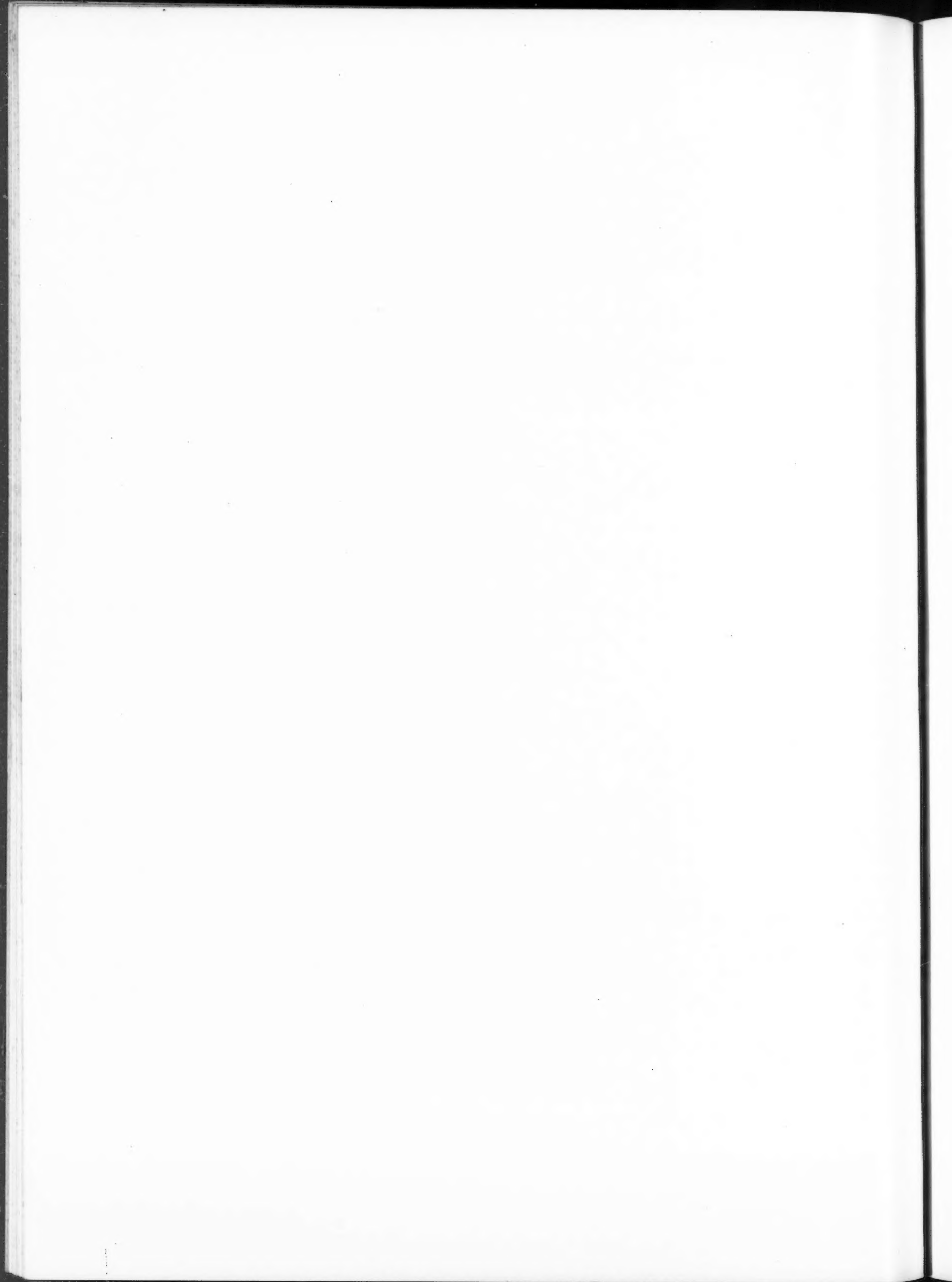
Third Honorable Mention, Temple of Justice and Group Plan
 Washington State Capitol Competition
 Mr. W. Marbury Somervell, Architect, Seattle, Wash.

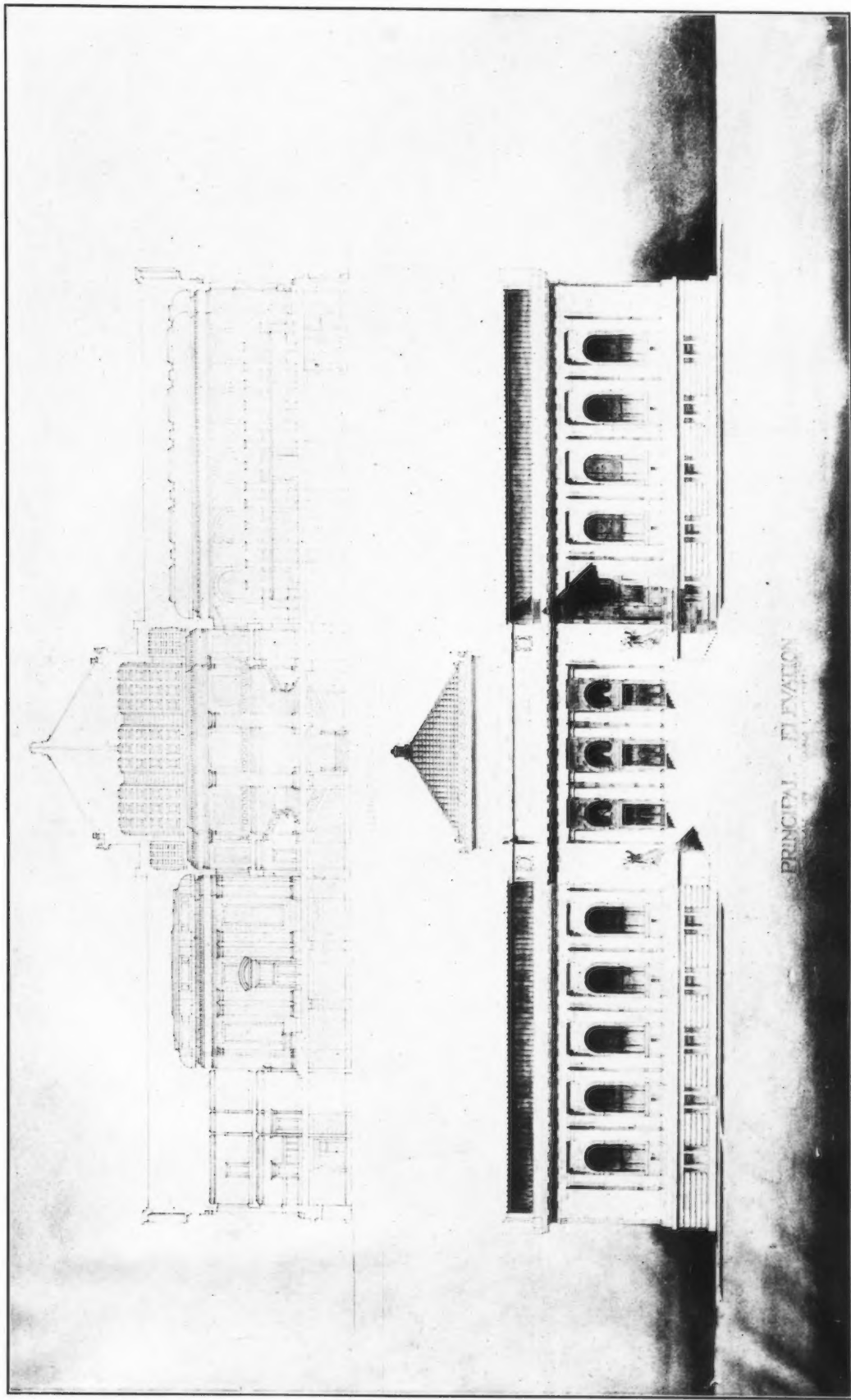




PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

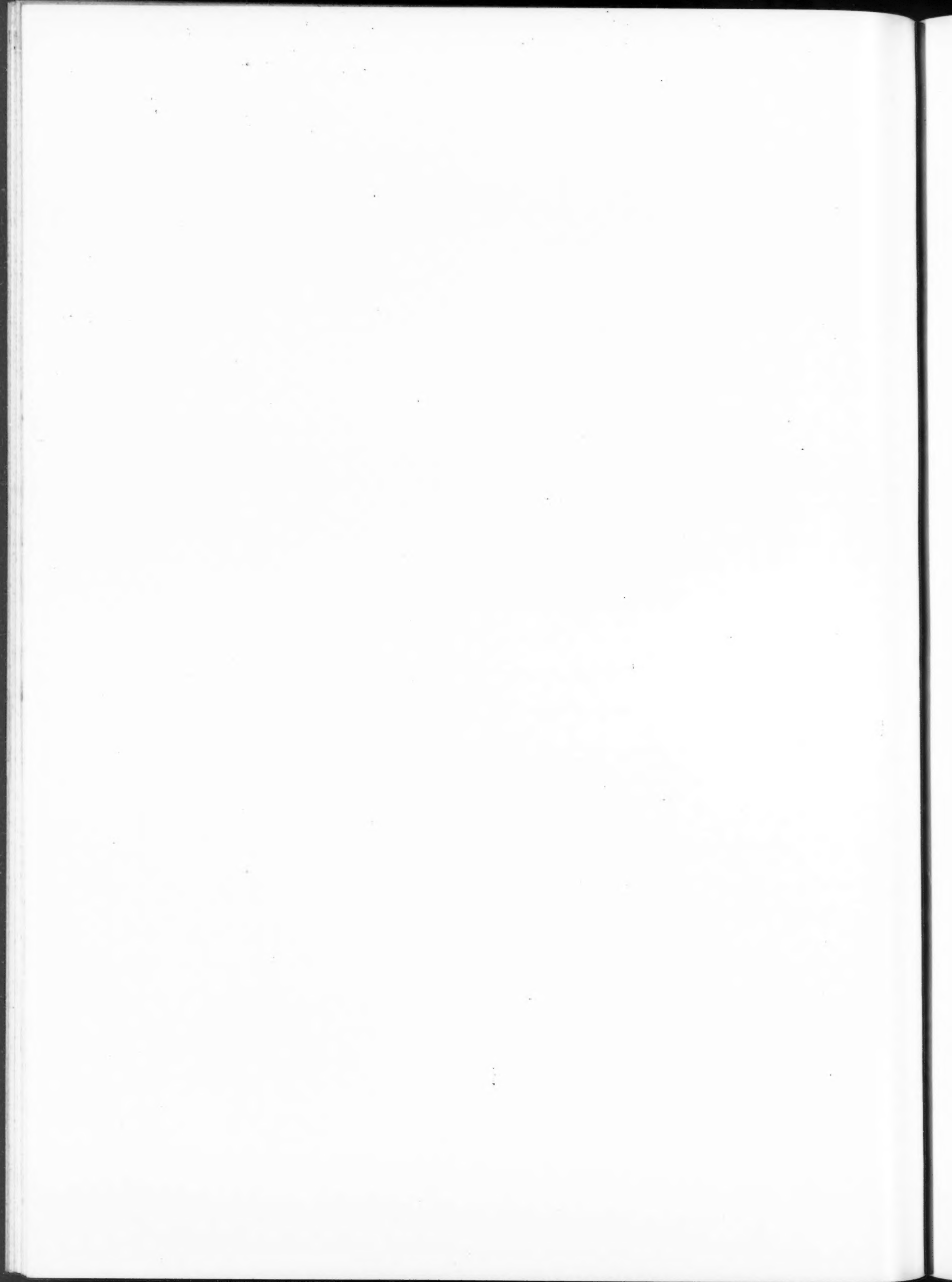
Third Honorable Mention, Elevation and First Floor Plan
Washington State Capitol Competition
Mr. W. Marbury Somervell, Architect, Seattle, Wash.

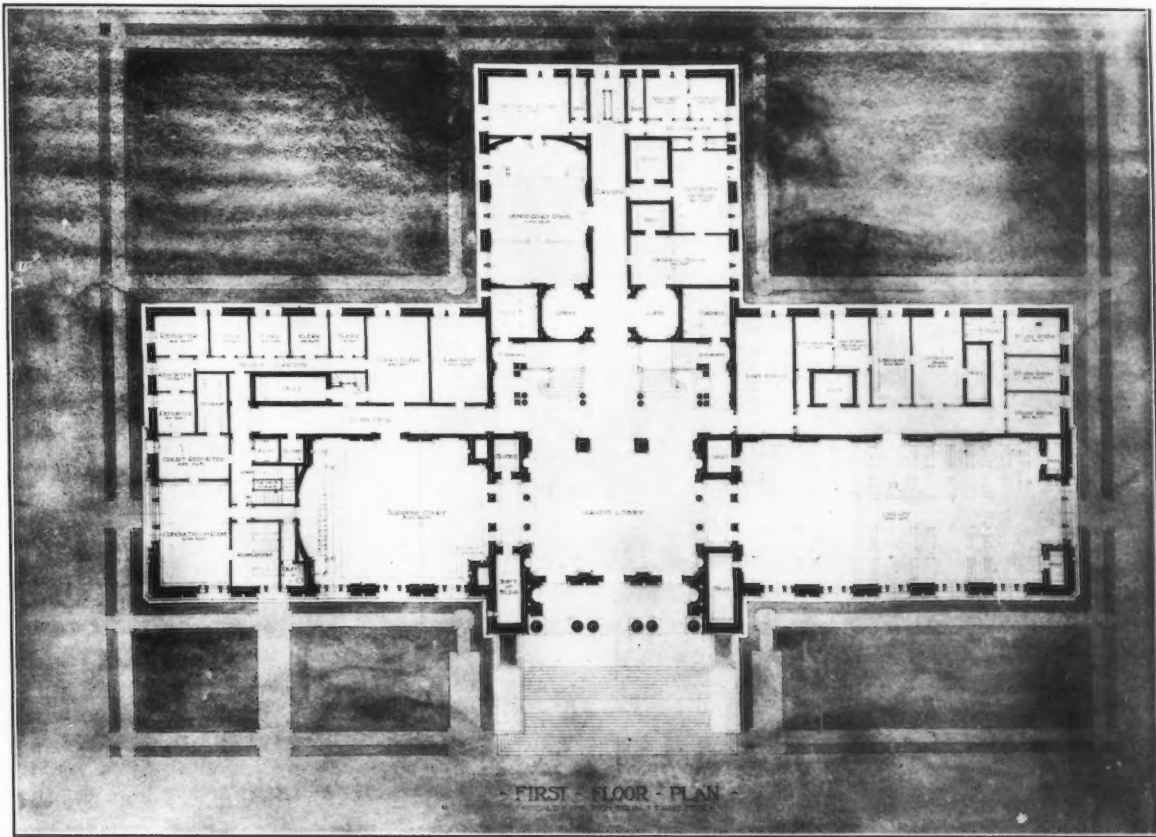




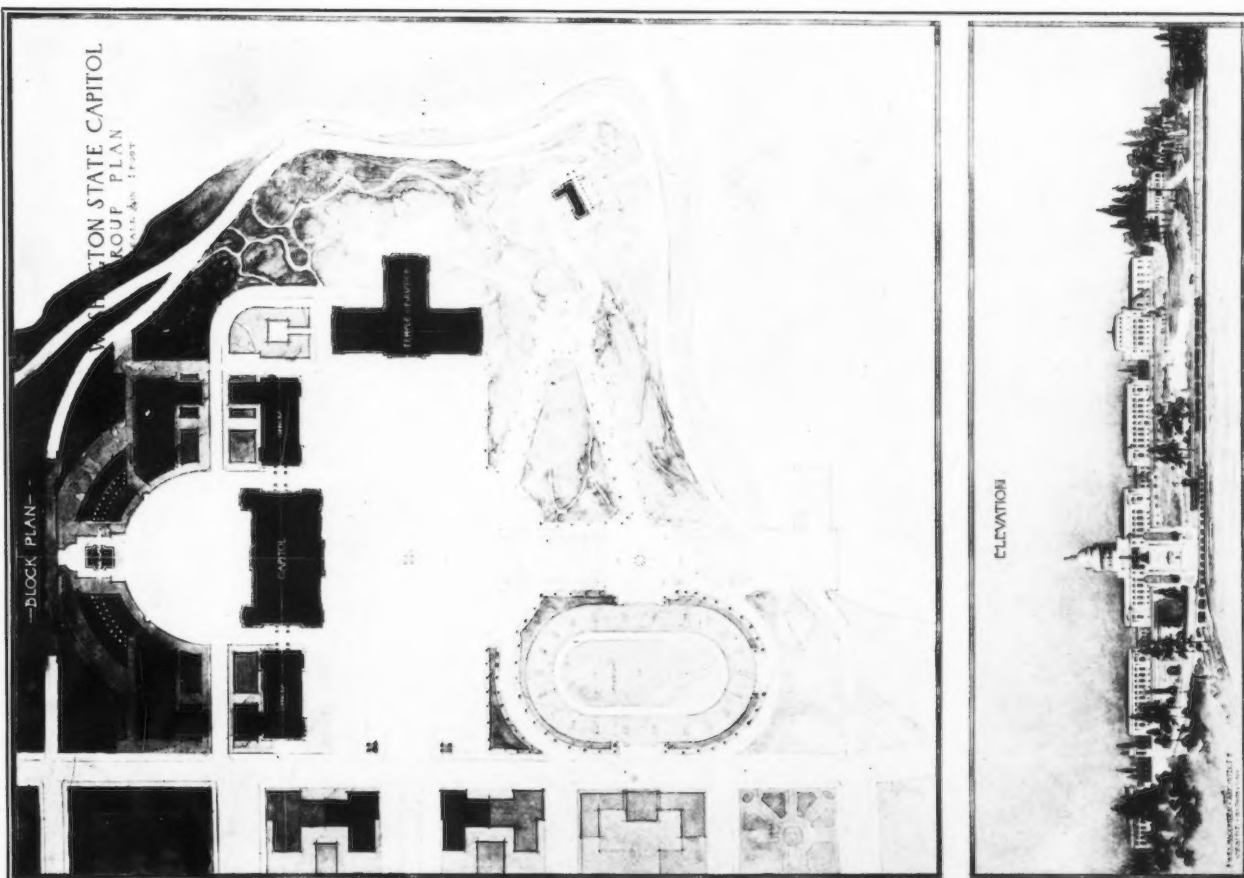
Second Honorable Mention, Temple of Justice and Section
Washington State Capitol Competition
Mr. Milton Lichtenstein, Architect, San Francisco, Calif.

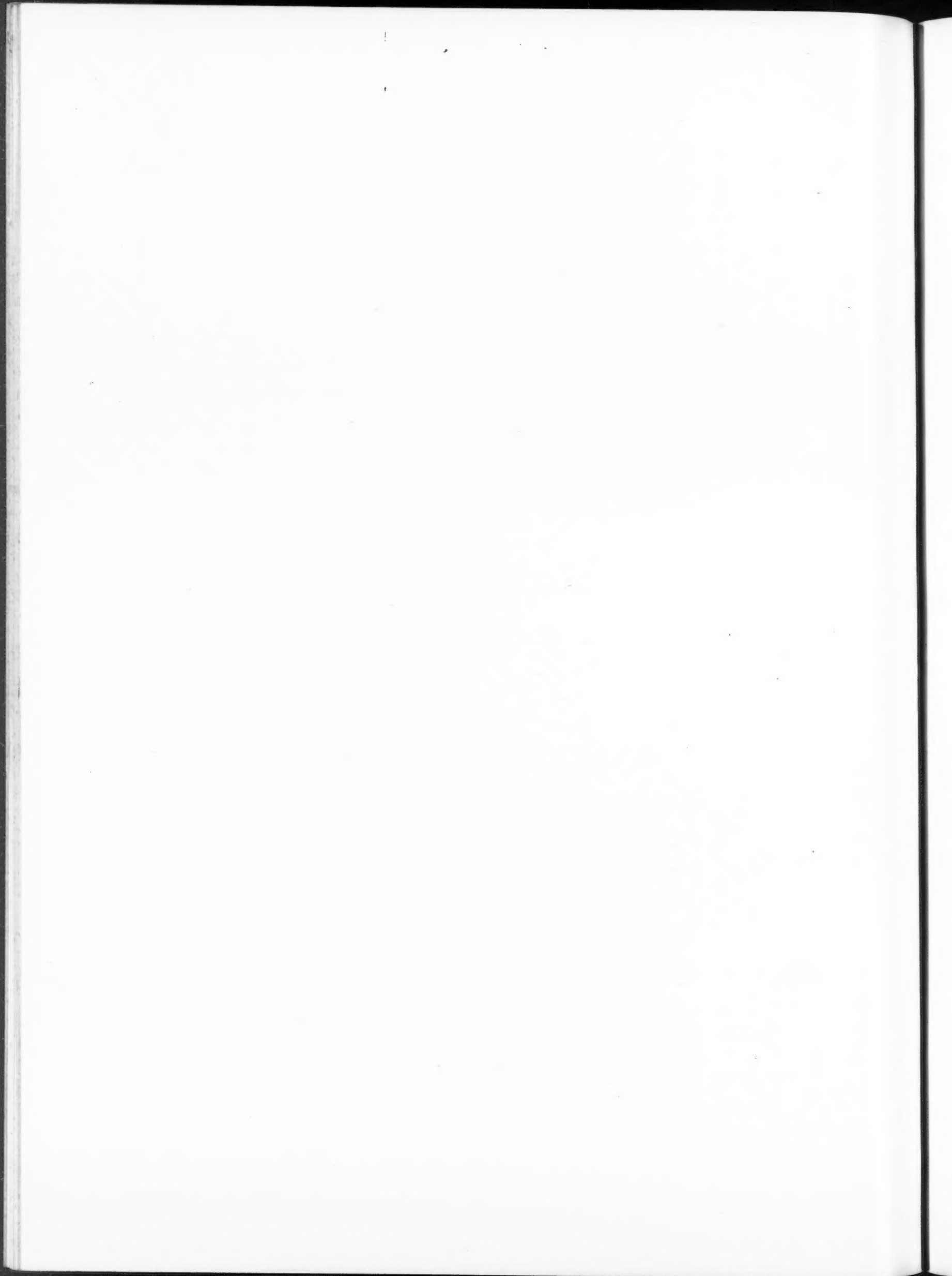
PACIFIC COAST ARCHITECT
SEPTEMBER, 1911

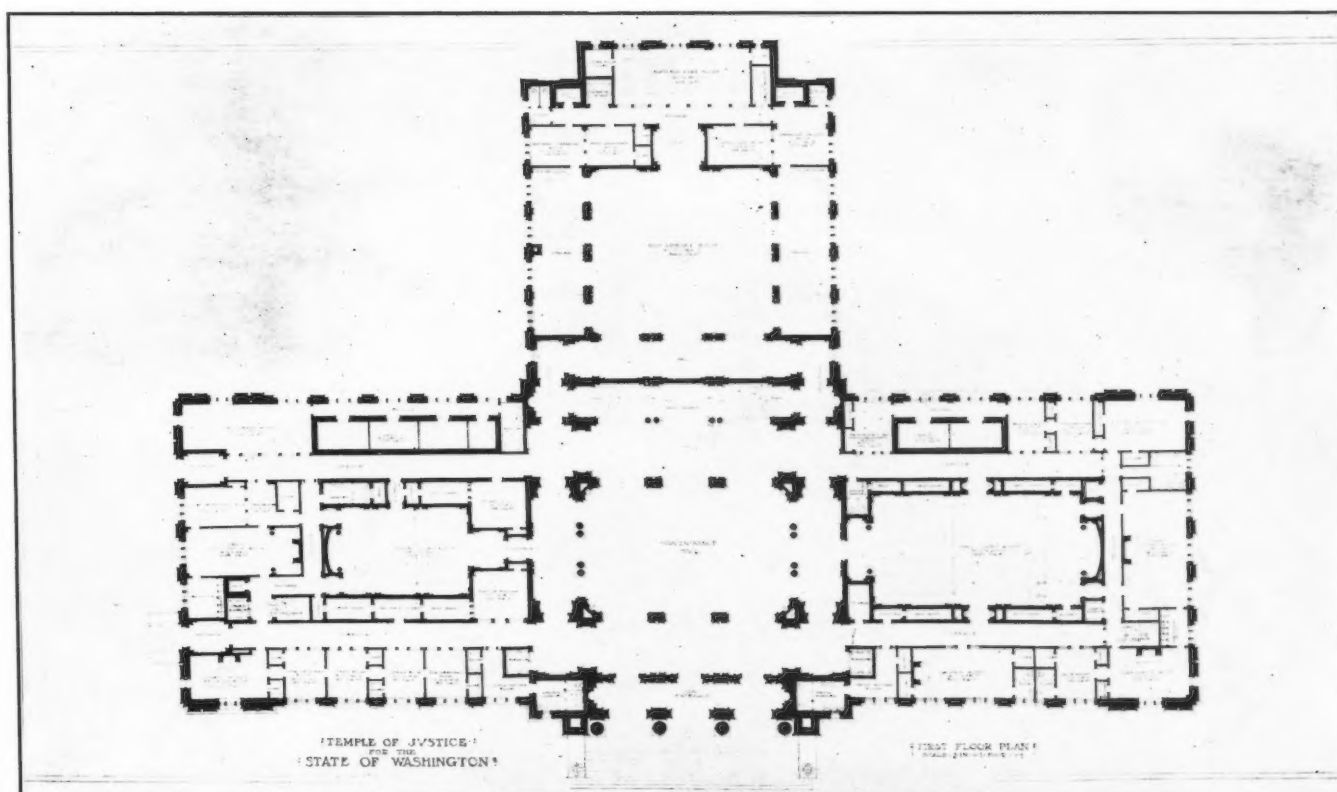
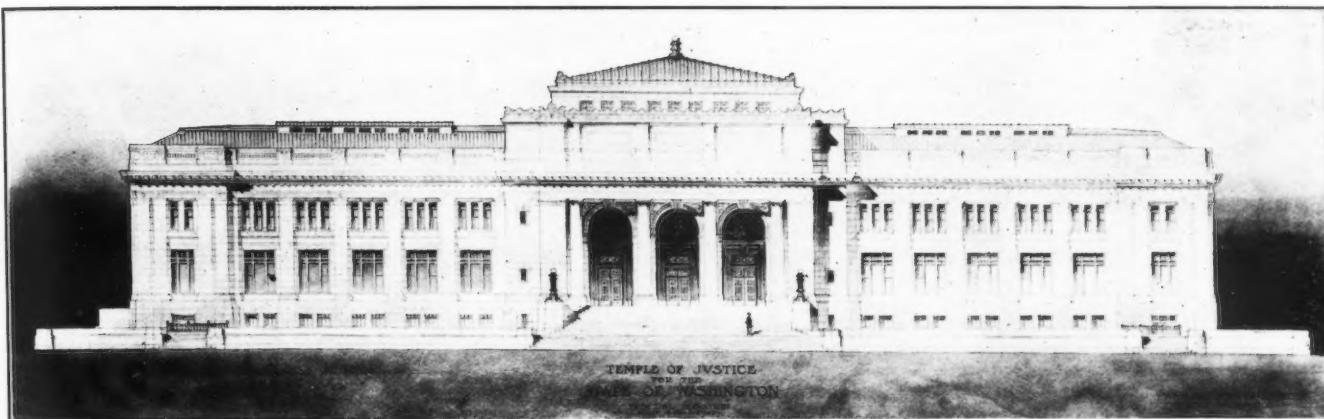




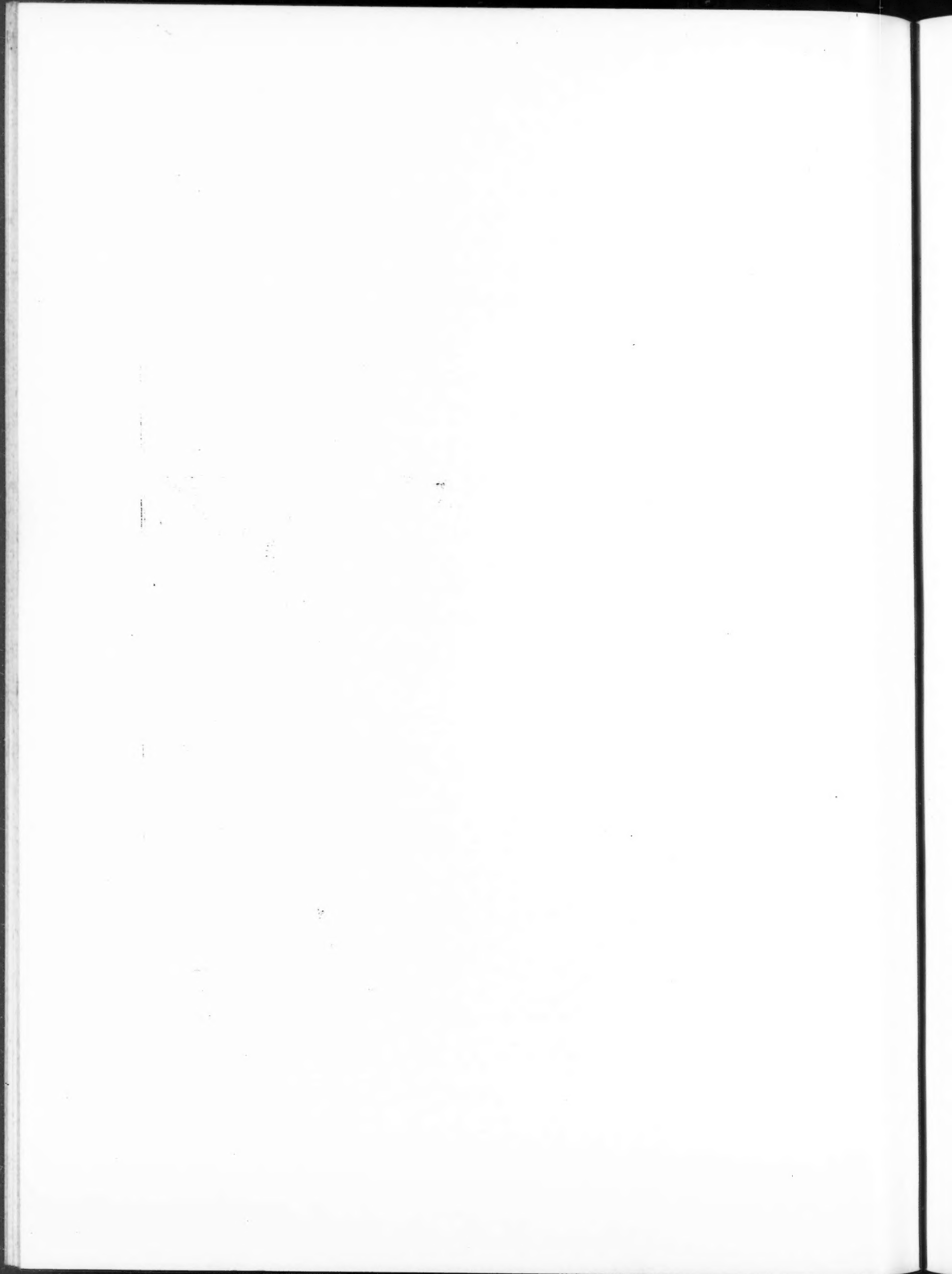
Second Honorable Mention, First Floor Plan, Temple of Justice
Washington State Capitol Competition
Mr. Milton Lichtenstein, Architect, San Francisco, Calif.







Fourth Honorable Mention, Temple of Justice and First Floor Plan
Washington State Capitol Competition
Mr. William K. Macomber, Architect, Seattle, Wash.



Modern Conveniences in Country Life

EDWARD S. TAYLOR

Electricity, gas and water under pressure seem to be the real necessities for modern comfortable living. All or part of these are usually to be had in cities, but the country dweller has had to do without until very recent years, either from their prohibitive cost or from lack of desire for them. The increasing wealth, however, of the planter, rancher and farmer, together with the better traveling facilities, giving them a broader knowledge of what the other third of the world is doing to be happy, has changed this condition so that now there is a demand everywhere for small, safe and economical installations for electrical lighting and producing water under pressure.

The city man who has built his country house and occupies it all or part of the time must have these conveniences as a matter of course. This desire for better things has been met by a development in machinery and methods that is remarkable. Electric lights, pressure water and even small refrigerating units are available to practically everyone at comparatively small cost.

It would seem, in reading the country life journals, that every boiler and pump maker in the country had gone into the so-called pressure system business, one as an outlet for his tanks and the other for his pumps. These so-called systems, with one or two exceptions, show very little originality and are much the same all the way through. They, as a rule, consist of a pressure storage tank, a pump for hand or power operation and a lot of fittings. The only variation is in the quality of the material furnished and the length of the credit term extended by the seller. As a rule the selling is done by mail. Elaborate literature and advertisements are sent out showing the lawn and garden being copiously watered, the automobile being washed, the bath tub being filled, the laundry tubs in use and in many cases a lot of domestic stock are seen to be quenching their thirst. This is all very alluring. An information blank is usually sent out with this literature, asking a lot of questions, and when the answers are received, and these, as a rule, are not very intelligent, quotations and recommendations are made, and in many cases the sale is consummated. A dozen pertinent items peculiar to the local conditions are overlooked by the purchaser, and even if he had taken them into consideration they would not have had any bearing on the recommendations made by the manufacturer.

The purchaser or the nearest general utility man installs the system when the material is received. They may get it right, but more often it is all wrong, and the blame is put on the system, when in fact it is perfectly good in every way as far as it has gone. In a very large percentage of cases the purchaser has a system installed that is far from satisfactory or has by no means received his money's worth merely because there was a great lack of care in the original recommendations and design.

The greatest mistake seems to be in supplying an utterly inadequate storage capacity particularly to meet emergencies. This comes from a lack of intelligent analysis and explanation on the part of the seller who wants the order at any cost, and the desire to save money on the part of the buyer. The fact that this system is to be a very important part of his domestic economy does not at the moment appeal to him. So in order to save a little money he puts in something that is not fitted to do the work he desires it to do and he is disappointed.

As a general proposition it can be stated that where a

single tank is used, only a third of the total capacity of the tank is available for water under useful pressure. One-third must be used for air and the balance contains water, as a rule under a pressure too low to be of service. A thousand-gallon tank will therefore give a man less than four hundred gallons of water that can be used at all points in his system, and in this kind of design it is the highest point that must be considered. This amount would ordinarily be enough for domestic purposes and general house and garden use, but in case of fire would be utterly useless. It would seem that this very important item is given scant consideration by those who are selling the material. A country home should never have less than a supply that will take care of a three-quarter-inch stream from ten to fifteen minutes under a constant pressure of not less than forty pounds. Anything less than this will not meet the emergency when it comes and is therefore inadequate.

The habit of burying pressure tanks is to be condemned. No one would think of doing this to a steam boiler, yet the conditions are much the same only in a minor degree. Pressure tanks should always be placed where they are accessible all around, so that any leak can be quickly found and remedied.

The worst feature of the ordinary single tank system is that the pressure must be far too high to be comfortable at its highest point if it is to be high enough to be of any service when the water has been lowered to the low limit. Also in order that these pressures may be obtained it is usually necessary to start with an initial pressure in the tank of perhaps ten pounds, adding a complication that is not to be desired. This is usually obtained by arranging the pump to deliver air and water together. This arrangement also allows for the replacing the air in the tank that is carried out with the water. The device works very well when carefully and intelligently watched, which it seldom is. Some systems are fitted with automatic arrangements to take care of this, but as a rule these require even more careful watching than the others.

The best results in maintaining this air supply are undoubtedly obtained by the use of an auxiliary compressor of a definite fixed output to that of the pump and fitted to unload when the tank pressure has reached its predetermined maximum.

In certain cases very good results are obtained by the use of a system whereby the water is lifted from the well and distributed by the use of air pressure alone. No water storage tanks are provided and its capacity at any given moment is limited by the flow of water into the well or cistern. This system should never be used except in cases where the power conditions make it almost impossible to use direct lifts and pressure. Air compression at its best is very uneconomical. Also except where very deep wells are concerned the number of small parts involved in this class of apparatus makes it liable to get out of order easily. It is particularly useless as a means of fire protection.

The best system to be had is none too good for a home, as it may be the very foundation of comfortable living and safety. Each case is, as a rule, entirely individual and should be so treated. The purchaser should always seek the advice of some one who has had experience in this kind of work and who would treat it from a technical rather than a commercial standpoint. If this important adjunct of the home is worth considering at all it is worth as much

(Continued on Page 259)

A Resume

Recent items selected from the Daily Advance Reports of The Pacific Coast Architect.

PORTLAND.

Garage. E. E. Coover erecting a two-story mill garage, 48 Twentieth street, to cost \$10,000.

Residence. Mrs. L. Arnold, 575 Marshall street, erecting frame residence to cost \$9500.

Residence. J. B. Dickover, 1183 Union avenue N., erecting frame residence to cost \$5500.

Residence. M. E. Blanchard erecting frame residence to cost \$6000.

Apartment. E. N. Carstens erecting frame apartment to cost \$8000.

Residence. E. M. McKenzie, 520 East Twenty-fourth street, erecting frame residence to cost \$8000.

Apartment Building. E. S. Ellis, 603 Board of Trade, erecting three-story brick to cost \$35,000.

Store and Flat Building. L. Gerlinger is erecting store and flat building to cost \$10,000.

Flat Building. W. E. Bowman & Co., East Twenty-second and Brazee, erecting two-story frame flat building to cost \$16,000.

School Building. School District No. 1 erecting two-story frame school house to cost \$20,000.

School Building. School District No. 1 erecting two-story frame school house to cost \$25,000.

Store and Residence. Architect Richard Martin, Jr., prepared plans for two-story frame store and residence building to cost \$15,000.

Residence. L. C. Berger, 304 Wheeler street, erecting two-story frame residence to cost \$5000.

Business Building. Portland Railway, Light & Power Co. erecting one-story brick paint shop to cost \$50,000.

Apartment House. Architects Claussen & Claussen prepared plans for apartment building for J. S. Johnson to cost \$20,000.

Business Block. Sellwood. Architects Claussen & Claussen prepared plans for two-story brick business building to cost \$7500.

Apartment Building. Bailey, Taylor & Lambert erecting four-story brick apartment at a cost of \$45,000.

Residence. Joseph Clundinsky erecting two-story frame residence to cost \$5000.

Residence. Austin N. Wheeler, Spalding building, erecting frame residence to cost \$5200.

Apartment. Architects Kroner & Henn prepared plans for frame apartment building to cost \$10,000.

Residence. Architects Spencer-McCain, Co. prepared plans for two-story frame residence to cost \$5000.

Business Building. H. M. Fancher Co. prepared plans for two-story reinforced concrete business building to be built at St. Johns.

Residence. S. C. Jagger, 574 East Couch street, will erect frame residence to cost \$5,000.

Store and Residence. Mrs. Ann Gerlinger will erect two-story brick store and residence to cost \$9500.

Residence. S. C. Crosinhte erecting two-story frame residence to cost \$5000.

Store Building. Sellwood. Architects Baker & Bingham prepared plans for two-story concrete brick veneer business building to cost \$10,000.

Residence. Architect D. B. Flickinger prepared plans for two-story brick residence to cost \$8000.

Flat Building. Architect E. E. McClaran prepared plans for two-story frame flat building to cost \$6000. The same architect prepared plans for two-story frame residence to be built at Des Moines, Idaho, to cost \$7000.

Flat Building. Architects R. N. Hockenberry & Co. prepared plans for two-story frame flat building to cost \$5000.

Residence. Architect Lewis I. Thompson prepared plans for Colonial residence for R. G. Hopson to cost \$10,000. The same architect prepared plans for hotel building to be erected at West Stayton, Oregon.

Theatre Building. Architects Claussen & Claussen prepared plans for one-story theatre building to cost \$7500.

Repair Shop. Portland Railway, Light & Power Co. will erect one-story brick car shop to cost \$30,000.

Church. The Swedish Mission Church will erect a three-story mill construction church building to cost \$12,000.

Store and Residence Building. Mrs. Mary L. D. Peniston,

4531 Seventieth street, erecting three-story frame residence to cost \$15,000.

Fire Station. Architects Emil Schacht & Son prepared plans for the erection of a two-story brick fire station at Woodstock.

Flat Building. E. L. Pease, 784 Pettygrove street, erecting two-story frame flat to cost \$6200.

Residence. T. A. Baker, 1160 Detroit avenue, erecting two-story frame residence to cost \$5000.

Office and Store Building. Architects Whidden & Lewis preparing plans for 12-story, class A., 100x100 office and store building, to cost \$250,000.

Hotel and Store Building. Architects Bennes & Hendricks preparing plans for three-story brick, 100x150, store and hotel building, to cost \$80,000.

Apartment Building. Morgan, Fleidner & Boyce will erect a six-story apartment building on the recent site of the Hanover Apartments destroyed by fire.

Gymnasium. Architect Ellis F. Lawrence prepared plans for 2 50x140, three-story gymnasium building, to be built in connection with the Washington High School.

Bank Building. Architects McNaughton & Raymond prepared plans for a 50x100, three-story bank building.

Club House. Architect W. B. Bell prepared plans for the remodeling of the Overland warehouse to be used as a Chinese club house.

Residence. The O. W. M. prepared plans for two-story frame residence for Richard W. Alsberger.

Residence. Architects Jacobberger & Smith prepared plans for residence for Dr. A. J. Giesy to cost \$25,000.

Church Building. The African M. E. Church will erect a new building on the corner of East Sixth and Multnomah streets.

Residence. Architect J. B. Clark preparing plans for residence for Mrs. Lilly Gill to cost \$5000.

Warehouse. Architect Edward T. Root prepared plans for six-story warehouse for the Oregon Transfer Co.

Hotel Building. Architect D. L. Williams prepared plans for an eight-story, 50x100, reinforced concrete hotel building, for the Smith Hotel Co.

Residence. Architect Charles W. Ertz preparing plans for five residences for Mrs. Hamilton.

Apartment Building. I. A. Peters erecting three-story brick apartment house to cost \$32,000.

Masonic Temple. Salem. Architect Ellis F. Lawrence preparing plans for six-story brick business and Masonic building to be built at Salem at a cost of \$100,000.

School House. Toutle, Wash. Architect Arthur J. Maclure preparing plans for two-story reinforced concrete school house to be built at Toutle, Wash.

Office Building. Pacific Telephone and Telegraph Co. will erect large office building as soon as a site has been secured.

Residence. Architect J. O. Wrenn prepared plans for two-story frame residence for Brockwell Statter.

Residence. Architect J. F. Kable prepared plans for seven-room frame residence to be built for Wm. J. Clarke.

Hotel Building. Architect H. Hanselmann prepared plans for six-story reinforced hotel building for Mrs. E. F. Goode.

Residence. Architect D. B. Flickinger preparing plans for two-story frame residence for E. Hasenmayer at a cost of \$5000.

Power House. Medford. Architect Robert F. Tegan prepared plans for power house and laundry for the Sacred Heart Hospital at Medford to cost \$10,000.

Store Building. Wm. Reidt erecting one-story mill construction store building to cost \$10,000. The same owner erecting two other one-story stores to cost \$8000 and \$9000 respectively.

Business Building. E. Berg erecting two-story concrete business building to cost \$15,000.

Warehouse. Architects Whitehouse & Foulhoux prepared plans for four-story mill construction warehouse to cost \$25,000.

Mill. The Dalles. Architects Bennes & Hendricks prepared plans for the erection of a reinforced concrete flour mill to be built at The Dalles at a cost of \$100,000.

OREGON.

Bank Building. Springfield. The Springfield Bank building banking quarters to cost \$12,000.

School Building. The Dalles. Tax Payers District No. 9 at Rowena voted to erect new school building.

Dam. Astoria. Water Commissioners will have erected a dam to hold a million gallons of water at a cost of \$75,000.

Store Building. Umatilla. Architect C. H. Hinebaugh prepared plans for two-story brick block to cost \$12,000.

Warehouse. Eugene. Architect John Hunzicker prepared plans for two-story frame, 40x60, warehouse.

Church Building. Wallawa. Catholic Church will erect new building.

Armory. Dallas. Architect W. H. Morrison prepared plans for the erection of an armory.

SEATTLE

Office Building. Architects Howells & Stokes prepared plans for 3 story 120x190 steel frame with reinforced concrete office building to cost \$100,000.

Hotel. Architects Bebb & Mendel will prepare plans for the erection of a hotel in the Rainier National Park for the Chicago, Milwaukee and St. Paul Ry. at a cost of \$500,000.

Garage. Architects Howells & Stokes preparing plans for a garage for C. F. White at a cost of \$6,000.

Office Building. Architect W. Marbury Somervell prepared plans for erection of a 12 story office building.

Store Building. The Bryant Lumber Co. will erect 3 story brick store building to cost \$20,000.

Office and Store Building. W. H. Murphy, 708 Ewing St., will erect 3 story reinforced concrete store and office building to cost \$50,000.

School House. Architects Beezer Bros. prepared plans for 3 story brick and stone school building to cost \$35,000.

SPOKANE

Business Building. Washington Liquor Co. erecting brick building to cost \$5,000.

Hospital Addition. St. Luke Hospital will build an addition at a cost of \$50,000.

Store and Apartment Building. Smith & Co., 117 Post St., will erect 3 story brick store and apartment building at a cost of \$60,000.

Business Building. Pacific Telephone & Telegraph Co., of San Francisco, will erect an 8 story brick office building at a cost of \$30,000.

Residence. I. N. Peyton will erect modern residence at a cost of \$50,000.

Residence. Architect Julius Zittel preparing plans for modern residence to cost \$20,000.

Store and Office Building. W. E. Allen will erect a 3 story store and office building to cost \$25,000.

WASHINGTON

Business Block, Aberdeen. Architect Watson Vernon prepared plans for 3 story brick and concrete building for Pacific States Telephone Co. to cost \$30,000.

Business Block, North Yakima. J. L. Bass is building 2 story brick 75x90 business building.

School Building, Cheney. School District has voted a new school house to cost \$29,000.

Business Building, Pasco. John Kerfoot erecting 2 story brick business building.

Business Building, Pasco. Wong How erecting 3 story concrete and brick business building.

Church Building, Raymond. Presbyterian Church will erect a new building.

Academy, Wenatchee. The Dominican Sisters are building an Academy to cost \$20,000.

Factory Building, Sumner. The Fleischmann Yeast Co., of New York City, will build a branch factory building at a cost of \$100,000.

Residence, Springdale. F. M. Dissell erecting residence to cost \$6,000.

Business Building, Ellensburg. W. F. Gray will erect 2 story concrete business building to cost \$20,000.

Warehouse, Cashmere. The Wenatchee Valley Fruit Growers' Association are erecting a brick veneer warehouse 50x150.

Round House and Shops, Pasco. The Northern Pacific completed plans for round house and shops to cost \$240,000.

Business Building, Granger. The Olympia Brewing Co. prepared plans for 2 story 75x100 business building.

Water System, Centralia. Chehalis and Centralia will build a joint gravity water system at a cost of \$115,000.

Warehouse, Tacoma. Union Meat Co. will erect reinforced concrete warehouse to cost \$20,000.

Lodge Building, Aberdeen. The Loyal Order of Moose will erect a lodge and business building to cost \$60,000.

Store and Hotel Building, Pasco. Architect V. W. Voorhees, Seattle, preparing plans for 3 story brick and concrete store and hotel building to cost \$30,000.

Church Building, Colfax. Architect Alpheus Dudley, Seattle, prepared plans for 1 story frame and brick veneer church building to cost \$15,000.

Union Depot, Aberdeen-Hoquiam. The Oregon-Washington R. & N. Co. and two other companies will join in the erection of a Union Depot to cost \$70,000. A freight depot will also be built at a cost of \$30,000.

IDAHO

Store Building, Kooskia. James Stewart is erecting 2 story brick 50x80 store building.

Store Building, St. Maries. W. H. Daney erecting 2 story brick concrete foundation business building.

Business Block, Twin Falls. C. M. Smith erecting 2 story 50x120 brick business block, to cost \$12,500.

High School, Moscow. School District will erect high school to cost \$65,000.

School House, Genesee. School District No. 5 will erect a new school building at a cost of \$20,000.

BRITISH COLUMBIA

Hotel Building, Vancouver. Architects Perry & Nicolais prepared plans for 4 story brick hotel to cost \$60,000.

Theatre, Vancouver. It is reported that Alex Pantages will erect an opera house at a cost of \$400,000.

Warehouse, Vancouver. Buckley & Baker will erect 5 story brick warehouse to cost \$27,000.

Warehouse, Victoria. Architect H. S. Griffiths prepared plans for the erection of a 6 story brick warehouse to cost \$136,000.

Hotel and Store Building, Vancouver. Architect W. E. Pentecost prepared plans for 4 story brick store and hotel building to cost \$30,000.

Hotel, Coalmont. D. Deane is erecting 3 story 55x76 hotel building to cost \$30,000.

Modern Conveniences in Country Life

(Continued)

care and thought as would be given the home itself so far as the details are concerned.

Every water system should be large enough to afford an ample supply in case of emergencies, for it is there that its real value lies. It should be arranged so that all water is discharged under a constant pressure instead of a varying one as is usually the case. Never more than half of the available stored water should be taken out without the pump starting to renew the supply, and this renewal should go on while the rest is being used. All water used should be replaced in from one to one and a half hours and pumps should be large enough to do this.

When a new house is being planned and built, architects are, as a rule, the first ones on the job. It would seem therefore that the interests of their clients, as well as their own, would be very well served if they would give a little pertinent advice as to this important matter and see that the proper thing is done as to the water system.

Will Bond You

JOHN KER

GENERAL INSURANCE

Surety Bonds

Main 9285; A 7276

1322-1323 Yeon Building



J. C. ENGLISH CO.

LIGHTING FIXTURES

128 PARK STREET, PORTLAND, OREGON

Portland Sand Co.

NOT IN THE COMBINE, NEVER WAS

**Sand, Gravel, Crushed
Rock, Etc.**

**RIVER AND HARBOR
Towing at Reasonable Rates**

Material delivered by the barge load at all navigable
points on the Willamette and Columbia Rivers

PHONES: EAST 911, HOME B 2996

Deliveries by Rail, Boat and Team

Bunkers at East End of Morrison Bridge

Ayerst & DeHaven

**Plumbing, Heating Contractors
and Engineers**

ESTIMATES AND DRAWINGS FURNISHED
ARCHITECTS ON SHORT NOTICE



Office, Marshall 1754; Shop, Main 8986

**506 Macleay Building
PORTLAND, OREGON**

COLUMBIA CONTRACT CO.

Building Materials

**CRUSHED ROCK
CRUSHED GRAVEL**

SAND—GRAVEL—CEMENT

If you want

The Best Concrete Work

Use

Crushed Rock or Crushed Gravel

WE HAVE IT

B 2254, East 926

**Bunkers and Dock
Foot East Main Street**



R. C. McCORMICK HOTEL BUILDING. SEATTLE
Gould & Champney, Architects

Sullivan Reinforced Partition Tile
Used Throughout

SULLIVAN TILE CO.

801 Chamber of Commerce, Portland

"Paul" Water Systems

Single Tank
Double Tank
Triple Tank
Air Lifts

Combination Air Lift
and Direct Pressure

*Every case given individual attention
and design*

**Ft. Wayne Engineering &
Manufacturing Co.**

FT. WAYNE, INDIANA

Spalding Building
Portland, Ore.

461 Market Street
San Francisco

The Advantages



THE OLD WAY

of the Cizek Patented
Hung and Pivoted Metal
Windows are most im-
portant. They are sani-
tary, convenient and do
not swell, buckle or warp.
They will
not split or
come apart
no matter
how in-
tense the

heat or dampness. They
prevent the spread of fire
and are indestructible.

WE HAVE AN INTEREST-
ING BOOKLET TO
SEND YOU



THE CIZEK WAY

A. F. Cizek Sheet Metal Works Co.

739 C STREET, TACOMA, WASHINGTON

F.T.Crowe & Co.

Jobbers and Dealers
Building Materials

Toch Bros. Paint Specialties
F. W. Bird & Sons Roofing and
Building Papers
Shingle Stains and Enamels
Cement and Plaster
Cement Specialties
Wall Board—Beaver and Sacket
Tapestry Brick
Wall Safes and Coal Chutes
Hardwood Flooring
Plaster Ornaments

Send for Catalogs

45 FOURTH ST., PORTLAND, ORE.

Oregon Brass Works

INCORPORATED

Hester System of Store Front Construction

Manufacturers and distributors for British Columbia and the Pacific Coast States. We are specialists in store front construction. Architects and Builders generally are quick to recognize the merit of the Hester System. Material, design, workmanship, attractiveness speak for their introduction and widespread use to men who are particular and want the best.

Also the Oregon Brass Works has a well equipped Foundry and Machine Shop and furnishes high-grade Material and Workmanship in bronze, brass, copper, aluminum and composition castings. Does finishing and plating. Keeps in stock Drawn Brass, Rod, Wire, Sheet and Tube Brass.

69-75 SECOND ST., PORTLAND, ORE.

Money and Space Savers

We Manufacture

Wall Beds, Seat and Couch Beds, Pivot Beds, Rolling (Disappearing) Beds

For Apartments
Hotels
Residences


LOWEST PRICES

Portland Concealed Bed Company

Show Room, 342½ Washington St., Room 17

Phone Marshall 1823

PORTLAND, OREGON




CUTS
OREGON
ENGRAVING
CO.

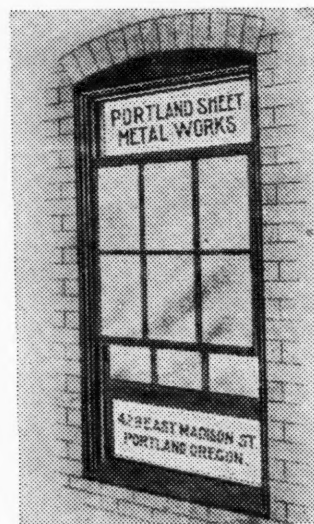
ARTISTS PHOTO-ENGRAVERS PHOTOGRAPHERS
GOODNOUGH BUILDING
PORTLAND OREGON

CUTS AND ILLUSTRATIONS
FOR ALL REQUIREMENTS

Two-Three and Four Color Work
Our Specialties



How is your Insurance Rate?



Why pay higher insurance than is necessary?

Do you know that The Portland Sheet Metal Works, Labeled Fire-proof Windows and Doors

are made under the supervision of the National Board of FIRE UNDERWRITERS?

PORTLAND SHEET METAL WORKS

Manufacturers of

Cornices, Skylights, Ornamental Sheet Metal Work, Marquises, Spanish Tile, Composition, Copper, Tin, Tile Roofing and Heavy Sheet Metal Work and Brick Ties at 4c per pound, at their factory

429 E. Madison Street

East 1666

Portland, Oregon

Portland Cement Laundry Tray Company

Manufacturers of



"THE ANCHOR BRAND"

This Tray is Guaranteed

Our references: Crane Co., The Gauld Co., M. L. Kline

Portland Cement Laundry Tray Co.

C. J. DONDERO

Phone East 3785

242 E. Sixth Street, Corner Main



WATSONITE FLOOR & ROOF COMPANY

Sole Contractors For Mixing and Applying

Watsonite

A Remarkable new Flooring Surface for industrial building such as Basements, Stables, Warehouses, Breweries, Slaughter Houses, Dairies, Etc., Etc.

Watsonite Flooring

is Wear-proof, Water-proof, Chemical-proof, cannot crack or chip. Is firm, tough and has a live steel spring elasticity that takes up bumps and hard knocks. Is not slippery, cleans easily, cannot absorb and is warm and comfortable under foot

Watsonite Floor & Roof Company

SEATTLE, SPOKANE, PORTLAND AND VANCOUVER, B. C.

SEATTLE OFFICE:
232 GLOBE BLDG.

SEATTLE TELEPHONE
MAIN 7871



The only true WATERPROOFING COMPOUND

For Cement Work
can be found at

P. L. CHERRY Co.

INCORPORATED

BUILDING MATERIALS

Main 855

Marshall 398

A 1465

Lumber Exchange Bldg., Portland, Oregon

GOOD CLOTHES

Help to make the man
and our low prices for
the best ones helps him
to wear them

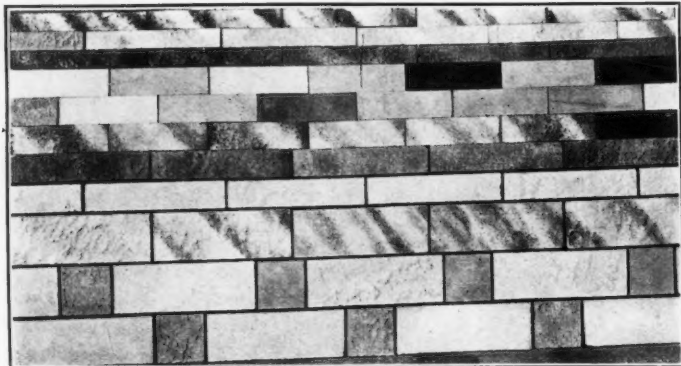
Every stitch of every
garment is made here
in our own workshop,
by the best tailors we
can find

PRICES FOR SUITS
\$22.00 to \$50.00

RAY BARKHURST

THE TAILOR

94 Sixth St., Cor. Stark, Portland, Ore.



A Portland-Made Product

We have a line of Mantel and Face Brick that will interest you. The price is right and the product is what this climate demands—waterproof face brick to secure a sanitary building. We invite any physical test on our product. Let us show you the brick laid up in pieces of wall.

The Shope Concrete Products Co.

PHONE EAST 1835

130 EAST WATER STREET



PHONE E 6154

Automatic
Electric
Cookers

Boiler
Insulators
and
Special Designed
Built-In
Refrigerators

*Made to Order to
Suit Customers*

OLSON & COMPANY

374 EAST OAK ST., PORTLAND, ORE.

The Printing Art



THE PACIFIC COAST ARCHITECT

Is an admirable trade-paper, progressive, artistic and a beautiful magazine from cover to cover and the craft-work is a true sample of

**KILHAM
QUALITY
PRINTING**

Our Engraving, Printing and Bookbinding Departments, modern facilities, our artists' and practical experts' new and original ideas creates a style and character peculiar to our progressive shop.

**KILHAM STATIONERY &
PRINTING CO.**

CORNER FIFTH AND OAK STREETS, PORTLAND, OREGON

Clay Tile

to meet every structural
requirement of the most
discriminating architect
or builder

STOCKS CARRIED IN PORTLAND, TACOMA, SEATTLE,
NORTH YAKIMA, VANCOUVER,
AND VICTORIA, B. C.

**Far West
Clay Company**

TACOMA

NITSCHKE & ANDRAE

MODELERS, CARVERS and
PLASTER DECORATORS

Manufacturers of

Ornamental Staff, Cement, Paper Mache
and Composition Ornaments

PATTERNS WOOD CARVING

Phone East 3073

161 Union Ave., North

Portland, Oregon



SHOWING SUPERIORITY OF BITULITHIC OVER OTHER FORMS OF PAVING
WARREN CONSTRUCTION COMPANY

OFFICE PHONE, A 7296

MARSHALL 1976

Western Stovepipe and Sheet Metal Co., Inc.

SHEET METAL CONTRACTORS

Hotel, Restaurant & Ship Work a Specialty

ESTIMATES FURNISHED

433 STARK STREET, PORTLAND, OREGON

Pacific Coast Asbestos Manufacturing Co., Inc.

Manufacturers of

PIPE AND BOILER COVERING



PHONE MAIN 6829

Office, 251 Jefferson Street, Portland, Oregon

C. F. WALKER
Residence Phone Tabor 2132

C. HART
Residence Phone Woodlawn 2043

PHONE MAIN 3626

WALKER & HART

**PLUMBING and
GAS FITTING**

SPECIAL ATTENTION GIVEN TO JOBBING

86 NORTH FOURTH STREET, PORTLAND, ORE.

Telephones: Tabor 1172; B 1571

Residence Phone, B 1486

KELLEY BROS., Inc.

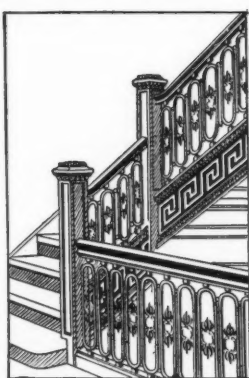
CONTRACTING TINNERS

ROOFING, GUTTERING MANUFACTURING

Warm Air Furnaces and Skylights a Specialty

202 East 34th Street

Portland, Oregon



PORTLAND, Oregon.

SECOND &
COLUMBIA
STREETS

TELEPHONES
Main 2000 A-2026



H. E. WILSON
Sellwood 1540

Residence Phone
Sellwood 179

Brooklyn Sheet Metal Works

**GALVANIZED IRON, COR-
NICE AND SKYLIGHTS**

Agent for
ACORN WARM AIR FURNACES

An Interesting Booklet Sent on Application

555 Milwaukee St., Portland, Ore.

ARCHITECTURAL SHEET METAL WORK

**FIREPROOF
METAL WINDOWS
METAL DOORS
CORNICE
SKYLIGHTS
MARQUISES, Etc.**

**SPANISH TILE
METAL SHINGLE
COPPER
PITCH and GRAVEL
ROOFS**

We Manufacture **THE GALVANIZED
STEEL SECTIONAL BUILDINGS**

Telephone East 805

GUNTHER-KING CO., Downtown Office, 66 Fourth St.
Factory, 144 and 146 Page Street

Northwestern Tile & Mantel Co.

JOHN EADIE, Manager

**Floor, Wall and Fireplace Tile-
work of Every Description**

TILE MANTELS A SPECIALTY

Phone Marshall 1015

227 Lumber Exchange Bldg., Portland, Oregon

COLUMBIA ELEVATOR CO.

**DESIGNERS AND BUILDERS OF
Hydraulic and Electric Dumb
Waiters and Freight Elevators**

Also Hand Wood and Trunk Lifts

Estimates Furnished

Telephones: East 3857, B 2444

254 EAST SIXTH STREET, PORTLAND, OREGON

THEY ARE HERE!!!

The International floor machines. Will revolutionize the grinding down of terrazzo and mosaic floors, and the finishing of hard wood and parquet flooring. Ask for booklet and figures showing the economy of electrical power versus hand power in the above work

WESTERN SALES COMPANY, Inc.

Pacific Coast Agents

44 Second Street, Portland, Oregon

PORTLAND TILE & MANTEL CO.

INCORPORATED

Estimates Furnished for All Tile Work

PHONE MAIN 8610

131 ELEVENTH ST., PORTLAND, OREGON

Reynolds' Commercial Studio

Successors to
Geo. M. Strong

Printing, Kodak Developing, Bromide Enlarging, Copying. Cuts for Catalogs—High-Grade Work Only. Special Attention Given to View Work

Phone Main 8065

163 West Park : : : Portland, Oregon

A. G. WHITEMAN

H. B. SHOFNER

Oregon Art Tile Company

**We make a specialty of Artistic Fire
Places and Mantels. Estimates fur-
nished for Tile Floors, Bath Rooms, etc.**

PHONES: MAIN 3889, A 7323

Office and Show Room

413 ALDER STREET, PORTLAND, ORE.
KNIGHTS OF PYTHIAS BUILDING

Tile



Fred W. Wagner

Agent For Moravian Tile

363 STARK ST., PORTLAND, OREGON

TELEPHONE MAIN 8339

G. P. EISMAN LUMBER COMPANY

Look over our stock—
WAREHOUSE 314 E.
WASHINGTON ST.
PHONE EAST 5716

EXCLUSIVE Agent for
T. Wilce Co.'s Chicago
Eastern High-grade Hard-
wood Flooring—*The House*
of Quality—Why buy cheap
substitutes when you can
get the high grade and
superior quality American
product for a few paltry
dollars more? Why buy ex-
pensive furniture to install
on inferior floors? Houses
with the Wilce floors will
sell for more money.

See that your specifica-
tions call for the T.
Wilce Co.'s Flooring—
name stamped on every
piece; accept no others.
There's class to our
floors. They are laid
with artistic skill

WE CAN HANDLE ANY CONTRACT FROM A FOUR ROOM
HOUSE TO A SIXTEEN-STORY SKY-SCRAPER AND
GUARANTEE SATISFACTORY RESULTS.

WE ALSO CARRY ROUGH OAK LUMBER

Office 519-20-21 Railway Exchange Phones: Marshall 2248, A1274

EFFICIENT-ECONOMICAL-SENSIBLE
REINFORCEMENT FOR CONCRETE

Kahn System

Cantilever Flat Slab
Hollow Tile Flat Slab

Designs in

Plain Twisted and Rib Bars
Hy-Rib, Metal Lath and
Structural Steel

J. A. Currey & Co.

SPECIALISTS IN REINFORCED CONCRETE

1007-9-10 Board of Trade, Portland, Oregon

SEE me before letting your contracts
for wrecking buildings—first and
foremost in all our undertakings. We also
build all kinds of structures using our
second hand material, in appearance as
good as new. *Get our prices.*

FOR SALE—We have on hand at
times, second hand joists, rough lumber
of all kinds, brick, lumber, plumbing
supplies, and all kinds of iron pipe, steel
and cast iron. Dry wood out of wrecked
buildings cut to stove lengths also doors,
windows and plate glass.

International Building & Wrecking Company

A. F. Elerath, Manager

General Contracting, Building, Brick and
Concrete Work and Wrecking a Specialty

We have ten years experience in the building and wrecking business

307 FOURTH STREET PORTLAND, OREGON
TELEPHONE MARSHALL 1834

4 17059 0

Timms, Cress & Co.

INCORPORATED

*Manufacturers Agents
and Jobbers*

184-186 Second Street, Between Yamhill and Taylor
Portland, Oregon

Building Materials

Duplex Joist Hangers	Cabot's Deafening Quilt
Duplex Steel Post Caps	Cabot's Conservo (Wood Preservative)
Bar-Lock Sidewalk Lights	Bay State Brick and Cement Coating
Bar-Lock Sky Lights	McRae Damp-Proofing
Bar-Lock Sidewalk Doors	Vulcanite Roofing
Cleveland Metal Lath	Banzai Enamel
Kinnear Steel Rolling Doors	Magnolith Sanitary Flooring
Mason Safety Treads	Far West Clay Co.'s Partition Tile
Oak and Maple Flooring	Hebron Pressed Brick
Korelock Hardwood Doors	Protection Metal Corner Bead
Pecora Mortar Stain	Sterling Stone
Cabot's Creosote Shingle Stain	
Cabot's Cement Stains	

And then some

Portland Cement
Hardwall and Land Plaster
Hydrated Lime
White Sand Fire Brick

Factory Distributors of

Roofing and Building
Papers

Western Building Material Company

816-817 Lewis Building, Portland, Oregon
TELEPHONES MAIN 6211—HOME A1107

San Francisco, California

Seattle, Washington

Washington Brick, Lime & Sewer Pipe Company

ESTABLISHED 1888

*Manufacturers of
Architectural
Terra Cotta*

Glazed matt and standard, all colors, Face brick, plastic and dry press, all colors; Common brick, Fire brick, Fire clay, Sewer pipe, Partition tile, Tile coping, Mantel tile, Hollow Building blocks, Flue lining, Electric conduit tile, Chimney pipe, Chimney tops and White lime

General Office
Spokane, Washington

Portland
512 Lewis Building

Phones: Main 851

Home, A1870

OREGON HARDWARE CO.

Cutlery, Tools and
Builders' Hardware

C. G. JENNINGS, Manager

107 Sixth Street

Portland, Oregon

